Panasonic

2.4GHz Expandable Cordless Phone System

Operating Instructions

Model No. KX-TG2382B
KX-TG2382PW
KX-TG2383S

Pulse-or-tone dialing capability

Model shown is KX-TG2382B.

Caller ID Compatible

PLEASE READ BEFORE USE AND SAVE.

Charge the battery for about 15 hours before initial use.

Panasonic World Wide Web address: http://www.panasonic.com
for customers in the USA or Puerto Rico

Thank you for purchasing your new Panasonic cordless telephone.

Please read IMPORTANT SAFETY INSTRUCTIONS on page 71 before use. Read and understand all instructions.

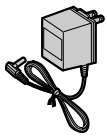
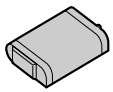
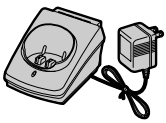
Caller ID and Call Waiting Service, where available, are telephone company services. After subscribing to Caller ID, this phone will display a caller's name and phone number. Call Waiting Caller ID, which displays a second caller's name and phone number while the user is on the phone line with the first caller, requires a subscription to both Caller ID with Name and Call Waiting Service.

Attach your purchase receipt here.

Energy Star:

As an ENERGY STAR® Partner, Panasonic has determined that this product meets the ENERGY STAR guidelines for energy efficiency. ENERGY STAR is a U.S. registered mark.

Accessories (included) For extra orders, call 1-800-332-5368.

Description		Order No.	Quantity
☐ AC Adaptor for base unit (p. 9) 		PQLV10Z (PQLV10)	1
☐ Telephone Line Cord (p. 9)		PQJA10075Z	1
☐ Battery (p. 10, 61) 		N4HHGMB00001 or N4HHGMB00005 (HHR-P103)	KX-TG2382B: 2 KX-TG2382PW: 2 KX-TG2383S: 3
☐ Handset Cover (p. 10, 61)		PQKK10131Z3 (Black) PQKK10131Z6 (Pearl White) PQKK10131Z5 (Silver)	KX-TG2382B: 2 KX-TG2382PW: 2 KX-TG2383S: 3
☐ Belt Clip (p. 12)		PQKE10352Z3 (Black) PQKE10352Z5 (Pearl White) PQKE10352Z4 (Silver)	KX-TG2382B: 2 KX-TG2382PW: 2 KX-TG2383S: 3
☐ Charger Unit (p. 9) 	Charger	PQLV30017ZB (Black) PQLV30017ZPW (Pearl White) PQLV30017ZS (Silver)	KX-TG2382B: 1 KX-TG2382PW: 1 KX-TG2383S: 2
	AC Adaptor	PQLV2Z (PQLV2)	KX-TG2382B: 1 KX-TG2382PW: 1 KX-TG2383S: 2

For KX-TG2382B/KX-TG2382PW users

KX-TG2382B/KX-TG2382PW includes two handsets and one base unit. You can expand the system by adding up to one additional handset. A maximum of 3 handsets can be registered to the base unit. **The included handsets are pre-registered at the factory and assigned the extension numbers 1 and 2.**

KX-TG2382B/KX-TG2382PW

+

KX-TGA230B,
KX-TGA230PW
OR
KX-TGA230W

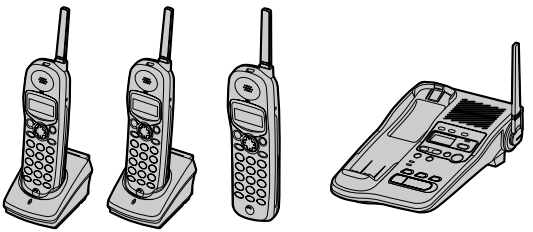
If you purchase accessory handsets, you must register each to the base unit. (Please read the KX-TGA230B, KX-TGA230PW or KX-TGA230W Installation Manual.)

The model number of the accessory handset is KX-TGA230B, KX-TGA230PW or KX-TGA230W. The charger is included. To order, contact your dealer or call 1-800-211-PANA(7262) to locate a dealer.

For KX-TG2383S users

KX-TG2383S includes three handsets and one base unit. A maximum of 3 handsets can be registered to the base unit. **The included handsets are pre-registered at the factory and assigned the extension numbers 1, 2 and 3.**

KX-TG2383S



- To re-register a handset to a different base unit of the same model, see pages 62 and 63.

Contents

Preparation

For Best Performance 6
Location of Controls 7
Installation 9
Connections 9
Installing the Battery in the Handset 10
Battery Charge 10
Belt Clip 12
Optional Headset 12
Programmable Settings 13
Programming Guidelines 13
Function Menu Table 14
Date and Time 15
Dialing Mode 16
Line Mode 17
Auto Talk Feature 18
Ringer Volume 19
LCD Contrast 20
Preparing the Answering System 21
Greeting Message 21
Caller's Recording Time 23
Number of Rings 24

Cordless Telephone

Making Calls 25
System Capabilities (Operating More Than One Handset) 25
Answering Calls 29
Caller ID Service 30
Using the Caller List 31
Viewing the Caller List 31
Calling Back from the Caller List 32
Editing the Caller's Phone Number 33
The Caller ID Number Auto Edit Feature 34
Storing Caller List Information in the Directory 35
Erasing Caller List Information 36
Directory 37
Storing Names and Numbers 37
Dialing from the Directory 39
Editing 40
Erasing 41
Intercom 42
Making Intercom Calls 42
Answering Intercom Calls 43

Transferring a Call 44
Conference Calls 45
Call Share 45
Special Features 46
Temporary Tone Dialing (For Rotary or Pulse Service Users) 46
Muting Your Conversation 46
For Call Waiting Service Users 46
How to Use the PAUSE Button (For PBX Line/Long Distance Calls) 47
FLASH Button 47
Ringer Tone 48
Incoming Call Tone 48

Answering System

Automatic Answering Operation 49
Setting the Unit to Answer Calls 49
Listening to Messages 50
Erasing Messages 51
Remote Operation with the Handset 52
Remote Operation from a Touch Tone Phone 54
Remote Code 55
Voice Menu 56
Direct Remote Operation 57

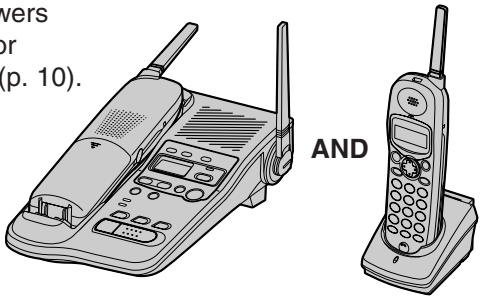
Useful Information

Wall Mounting 58
Adding Another Phone 60
Battery Replacement 61
Canceling Registration/Re-registration 62
Canceling the Handset Registration 62
Re-registering the Handset 63
If the Following Appear... 64
Troubleshooting **66**
Important Safety Instructions 71
FCC and Other Information 72
Index 75
Specifications 76
Warranty 77

For Best Performance

Battery charge

A rechargeable Ni-MH battery powers the handset. Charge the battery for about **15 hours** before initial use (p. 10).

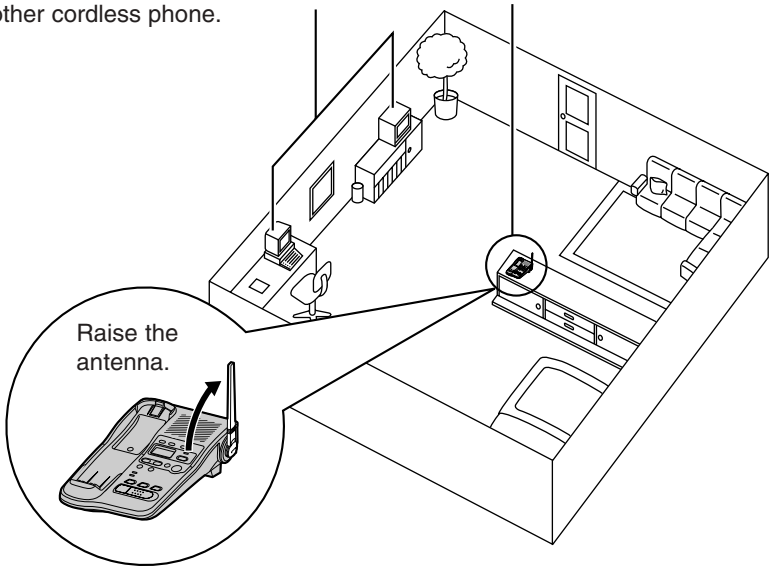


Base unit location/Noise

Calls are transmitted between the base unit and the handset using wireless radio waves. **For maximum distance and noise-free operation**, the recommended base unit location is:

Away from electrical appliances such as a TV, personal computer or another cordless phone.

In a HIGH and CENTRAL location with no obstructions such as walls.



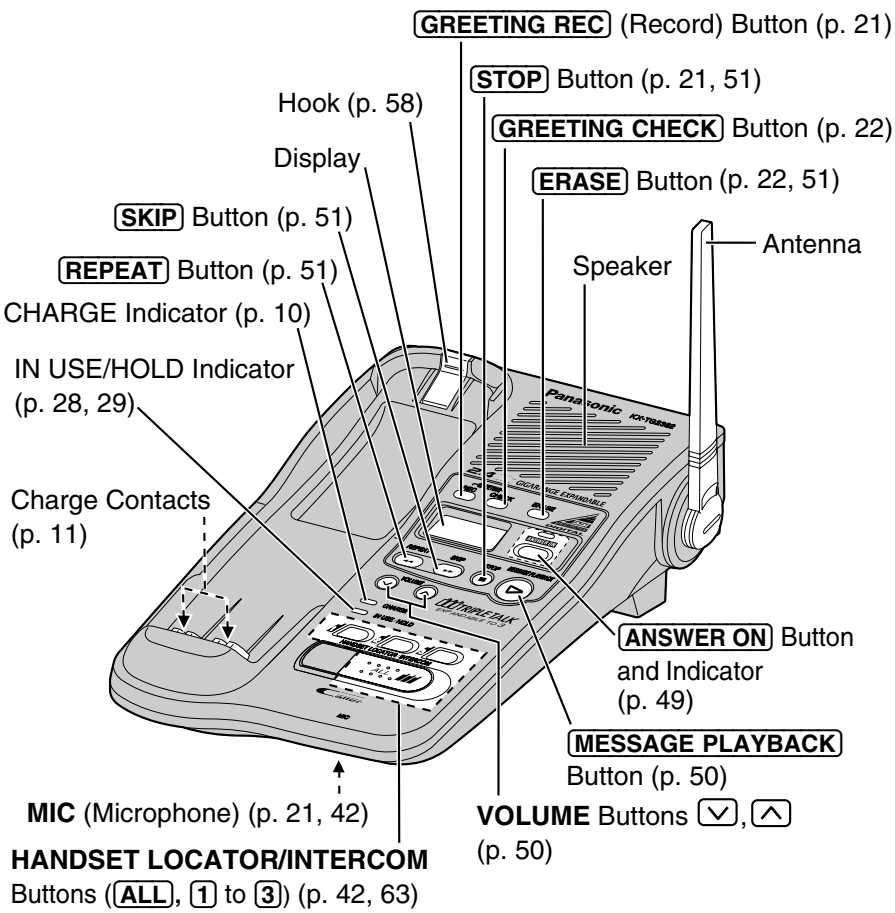
Note:

While using the handset:

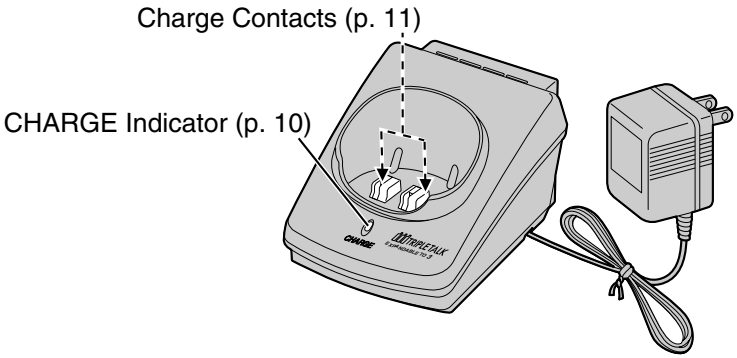
- If you are near a microwave oven which is being used, noise may be heard from the receiver or the speaker. Move away from the microwave oven and closer to the base unit.
- If you use the handset near another cordless phone's base unit, noise may be heard. Move away from the other cordless phone's base unit and closer to your base unit.

Location of Controls

Base unit

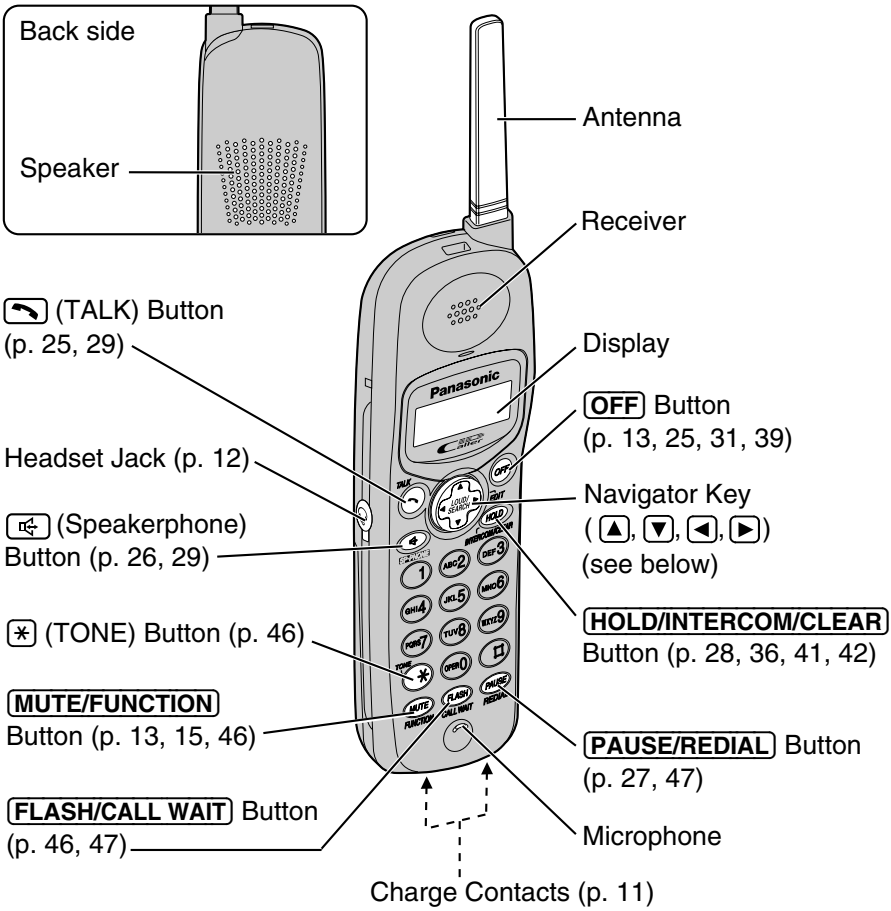

GREETING REC (Record) Button (p. 21)
STOP Button (p. 21, 51)
Hook (p. 58)
GREETING CHECK Button (p. 22)
Display
ERASE Button (p. 22, 51)
SKIP Button (p. 51)
Antenna
REPEAT Button (p. 51)
Speaker
CHARGE Indicator (p. 10)
IN USE/HOLD Indicator (p. 28, 29)
Charge Contacts (p. 11)
ANSWER ON Button and Indicator (p. 49)
MESSAGE PLAYBACK Button (p. 50)
MIC (Microphone) (p. 21, 42)
VOLUME Buttons ∨, ∧ (p. 50)
HANDSET LOCATOR/INTERCOM Buttons (ALL, 1 to 3) (p. 42, 63)

Charger unit



Location of Controls

Handset



How to use the Navigator key

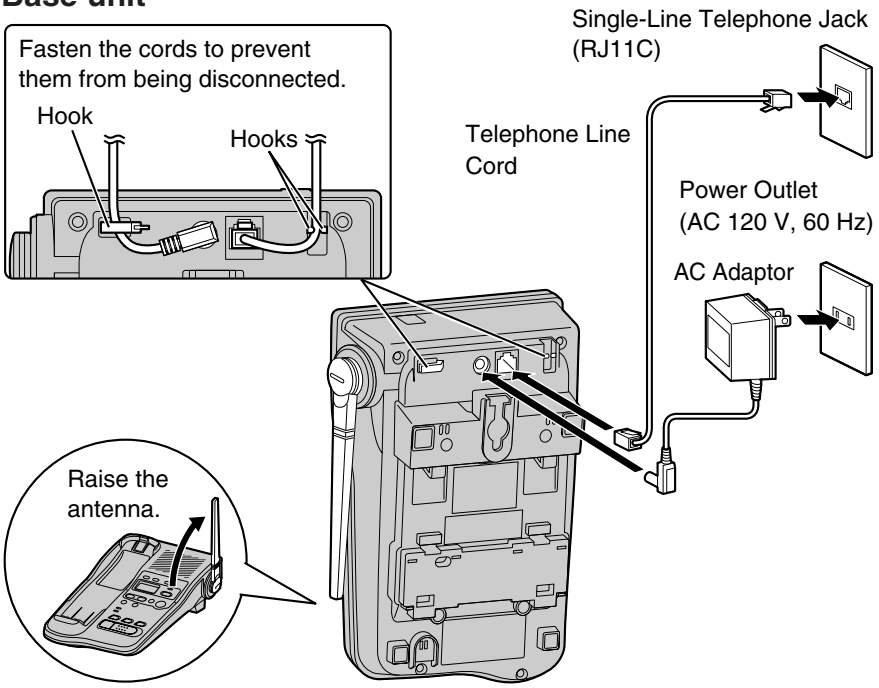
This key has four active areas that are indicated by arrows.

- Pressing the up and down arrows allows you to scroll through a list of settings, the Caller List and your personal directory. The up and down arrows are also used to adjust the ringer volume and the receiver/speaker volume.
- Pressing the right and left arrows allows you to enter the directory list and to move the cursor when entering directory items.
- The right arrow is also used to select your menu choices.

Throughout these Operating Instructions, the Navigator key is indicated by the arrows ▼, ▲, ◄ or ►.

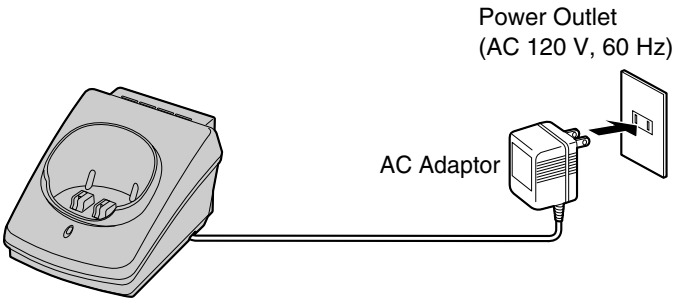
Connections

Base unit



- USE ONLY WITH Panasonic AC ADAPTOR PQLV10 (Order No. PQLV10Z).
- The AC adaptor must remain connected at all times. (It is normal for the adaptor to feel warm during use.)
- To connect a standard telephone on the same line, see page 60.
- If your unit is connected to a PBX which does not support Caller ID services, you cannot access those services.

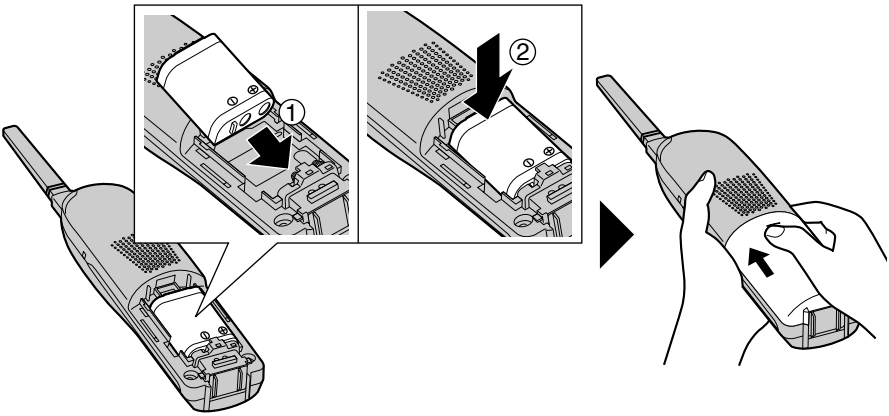
Charger unit



- USE ONLY WITH Panasonic AC ADAPTOR PQLV2 (Order No. PQLV2Z).
- The AC adaptor must remain connected at all times. (It is normal for the adaptor to feel warm during use.)

Installing the Battery in the Handset

Insert the battery into the handset as shown, matching the correct polarity (①). Press the battery down until it fits securely into the compartment (②). When finished, close the cover.

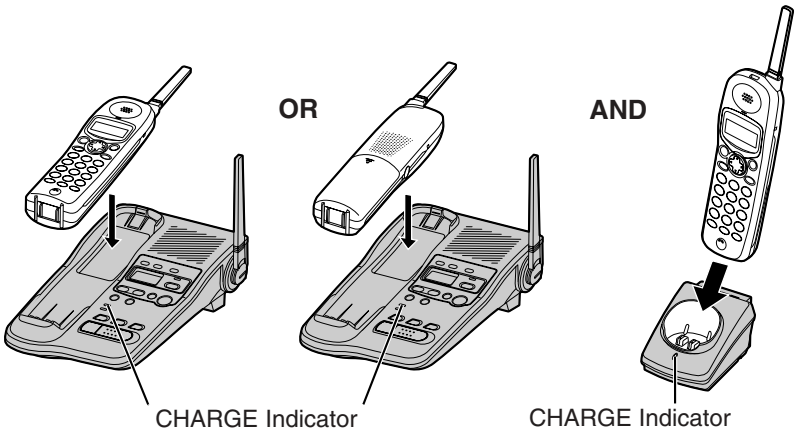


Battery Charge

Place the handsets on the base unit and the charger, then charge for about **15 hours** before initial use.

- The CHARGE indicator on the base unit or the charger will light, a beep will sound and "Charging" will be displayed on the handset.
- Each handset's extension number is shown in the top right of its display ("[1]", "[2]" or "[3]") (p. 3).
- You can charge either handset on the base unit or the charger.

Ex. Extension number 1



Battery strength

You can check the battery strength on the handset display.
The battery strength is as shown in the chart below.

Display prompt	Battery strength
[▮▮▮]	Fully charged
[▮▮]	Medium
[▮]	Low
[▮] (flashing)	Needs to be recharged.

Recharge

Recharge the battery when:
—"Recharge" is displayed on the handset,
—"[▮]" flashes on the display, or
—the handset beeps intermittently while it is in use.

- If you DO NOT recharge the handset battery for more than 15 minutes, the display will continually indicate "Recharge" and/or "[▮]" will flash when the handset is lifted off the base unit or the charger.
- If the battery has been discharged, the handset will display "Charge for 15h" when you place the handset on the base unit or the charger. The handset will not work. Keep charging until fully charged.

Battery information

After your Panasonic battery is fully charged (p. 10):

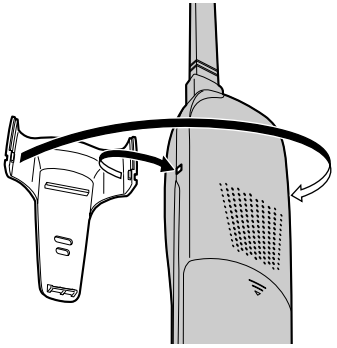
Operation	Operating time
While in use (TALK)	Up to 4 hours
While not in use (Standby)	Up to 7 days

- The battery operating time may be shortened depending on usage conditions and ambient temperature.
- **Clean the charge contacts of the handset, the base unit and the charger with a soft, dry cloth once a month. Clean more often if the unit is subject to grease, dust or high humidity.** Otherwise the battery may not charge properly.
- If the battery is fully charged, you do not have to place the handset on the base unit or the charger until "Recharge" is displayed and/or "[▮]" flashes. This will maximize the battery life.
- The battery cannot be overcharged.

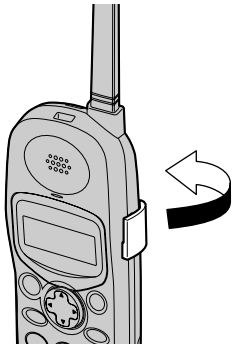
Belt Clip

You can hang the handset on your belt or pocket using the belt clip.

To attach the belt clip



To remove the belt clip

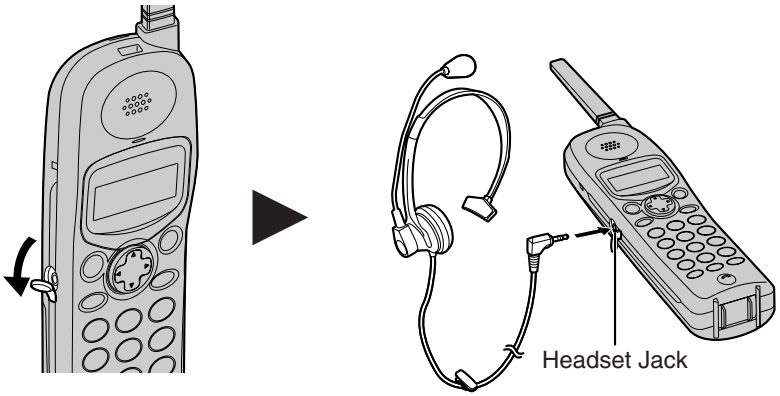


Optional Headset

Plugging a headset into the handset allows a hands-free phone conversation. Please use only the Panasonic KX-TCA88 headset. To order, call the accessories telephone number on page 2.

Connecting the optional headset to the handset

Open the headset jack cover, and connect the optional headset to the headset jack as shown below.

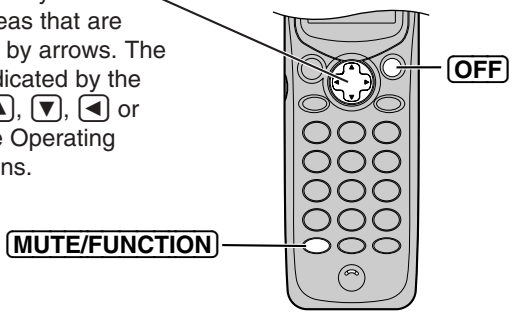


To switch to the speakerphone while using the headset:
Press [SP-PHONE]. To return to the headset, press [OFF].

Programming Guidelines

This unit has programmable functions. Most of them are selected from the function menu on the display (p. 14).

Navigator key has four active areas that are indicated by arrows. The key is indicated by the arrows ▲, ▼, ◄ or ► in the Operating Instructions.



How to select a function item from the menu

Make sure the unit is not being used and the handset is lifted off the base unit.

1. Press **MUTE/FUNCTION**.
   - The main menu is displayed (p. 14).

```
 --------------
▶Save directory
 Message play
```

2. You can scroll through the menu by pressing ▼ or ▲. Scroll to the desired item by pressing ▼ or ▲.
3. Press ► to select the item.

```
 Message play
▶Ringer setting
 Date and time
```

4. If the item has a sub-menu I, it will be displayed. Select the sub-menu item by pressing ▼ or ▲, and press ►.
   If the sub-menu I item has the sub-menu II, it will be displayed. Select the sub-menu II item in the same way.

```
 Ringer volume
▶Ringer tone
 Incoming call
```

5. You can then select the desired setting by pressing ▼ or ▲.

Ex. Ringer tone setting

```
Ringer tone
                :1
▼▲          ▶=Save
```

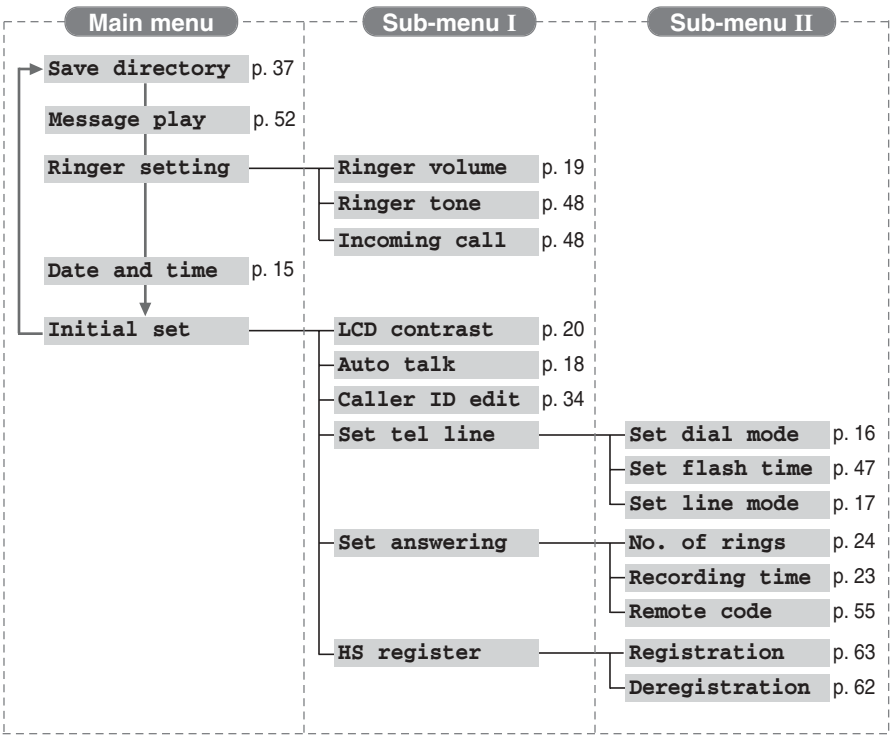
6. To save the setting, press ► (`Save` key).
   - When programming is complete, a confirmation tone sounds. The display will return to the main menu or the sub-menu I or the sub-menu II (if the function item is in the sub-menu I or in the sub-menu II). You can continue programming other items. To exit the menu, press **OFF**.

Useful information:

- "----------" indicates the beginning or end of the function menu.
- You can go back to the previous display by pressing ◄ except when entering characters or numbers. To return to the main menu from the sub-menu I or sub-menu II, press ◄.
- You can exit the programming mode any time by pressing OFF.
- If you do not press any buttons for 60 seconds, the handset will exit the programming mode.
- If the unit detects a problem, an error message will be displayed (p. 64).

Function Menu Table

You can use the following functions to customize your unit. After pressing MUTE/FUNCTION, the main menu is displayed. Most items in the main menu have a sub-menu I. The sub-menu I is shown after selecting the item in the main menu. If the sub-menu I item has the sub-menu II, it will be displayed after selecting that sub-menu I item. See the corresponding pages for function details.

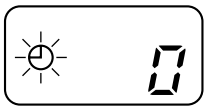


- If you program the date and time, the dialing mode, the flash time, the line mode, the number of rings, the recording time or the remote code using one of the handsets, you will not need to program the same function using the other handsets.

Date and Time

"🕘" flashes on the base unit display if the clock has not been set. The clock needs adjusting.

Base unit display



Voice Day/Time Stamp: During playback, a synthesized voice will announce the day and time that each message was recorded.

Make sure the unit is not being used and the handset is lifted off the base unit.

1 Press **MUTE/FUNCTION**.

2 Scroll to "Date and time" by pressing ▼ or ▲.

```
 Ringer setting
▶Date and time
 Initial set
```

3 Press ▶.

```
Date:2002.01.01
Set date=0-9 ◀▶
          ▼=Next
```

4 Enter the year, and month and day using 4-digit numbers. (Ex. To set Aug. 7, 2003, enter "2003" and "0807".)

- If you enter a wrong number, press ◀ or ▶ to move the cursor to the incorrect number. Enter the correct number.

```
Date:2003.08.07
Set date=0-9 ◀▶
          ▼=Next
```

5 Press ▼ (Next key).

- If 3 beeps sound, the setting is not correct. Enter the correct number.

```
Time:12:00 AM
Set time=0-9 ◀▶
*=AM/PM  ▼=Next
```

6 ①Enter the time (hour and minute) using a 4-digit number.
(Ex. To set 9:30, enter "0930".)
②Select "AM" or "PM" by pressing *.

7 Press ▼ (Next key).

- If you want to change the setting, press ▲ (Edit key) to reach the desired display and change it.

```
Date:2003.08.07
Time:09:30 PM
▲=Edit   ▶=Save
```

8 Press ▶ (Save key).

- A beep sounds and the clock starts working.
- To exit the programming mode, press **OFF**.

If a power failure occurs, the time may be shifted. When "🕘" flashes on the base unit display, adjust the date/time.

- You can exit the programming mode any time by pressing **OFF**.

•When entering the time in step 6, you cannot enter numbers greater than 12. **Do not use military time.** (To set 13:00 hours, enter "0100", and select "PM" by pressing ⊛.)

To check the date/time

MUTE/FUNCTION ➡ ▼ or ▲ to select "Date and time" ➡ ▶ ➡ ➡ ▼ (Next key) TWICE ➡ Date and time will be displayed. ➡ OFF

For Caller ID service users (p. 30)
- The Caller ID information will reset the clock after the first ring if the adjusted time is incorrect.
- If the clock has not previously been set, the Caller ID information will not adjust the clock.
- The Caller ID information will automatically adjust the clock for daylight saving time.

Dialing Mode

If you have touch tone service, set to "Tone". If rotary or pulse service is used, set to "Pulse". Your phone comes from the factory set to "Tone". **Make sure the unit is not being used and the handset is lifted off the base unit.**

1 Press MUTE/FUNCTION.

```
 --------------
▶Save directory
 Message play
```

2 Scroll to "Initial set" by pressing ▼ or ▲, and press ▶.

```
 Date and time
▶Initial set
 --------------
```

3 Scroll to "Set tel line" by pressing ▼ or ▲, and press ▶.

```
 Caller ID edit
▶Set tel line
 Set answering
```

4 Press ▶ at "Set dial mode".
- The current setting is displayed.

```
 --------------
▶Set dial mode
 Set flash time
```

5 Select "Pulse" or "Tone" by pressing ▼ or ▲.

```
Set dial mode
          :Tone
▼▲        ▶=Save
```

6 Press ▶ (Save key).
- A beep sounds.
- To exit the programming mode, press OFF.

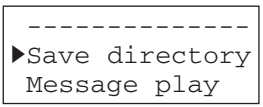
```
Set dial mode
          :Pulse
```

•You can exit the programming mode any time by pressing OFF.

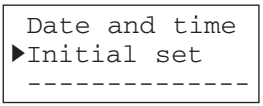
Line Mode

The line mode is preset at the factory to “B”. Generally leave the line mode to “B”. If a change of the line mode setting is required by our customer call center or serviceman, change the line mode to “A”.
Make sure the unit is not being used and the handset is lifted off the base unit.

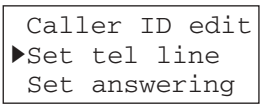
1 Press **MUTE/FUNCTION**.



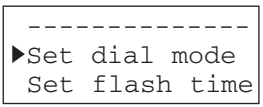
2 Scroll to “Initial set” by pressing ▼ or ▲, and press ▶.



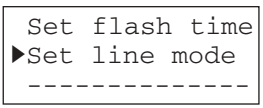
3 Scroll to “Set tel line” by pressing ▼ or ▲.



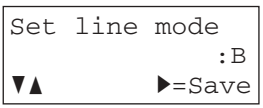
4 Press ▶.



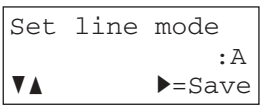
5 Scroll to “Set line mode” by pressing ▼ or ▲.



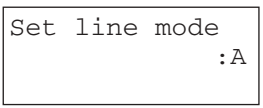
6 Press ▶.
•The current setting is displayed.



7 Select “A” or “B” by pressing ▼ or ▲.



8 Press ▶ (Save key).
•A beep sounds.
•To exit the programming mode, press **OFF**.



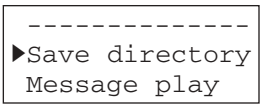
•You can exit the programming mode any time by pressing **OFF**.

Auto Talk Feature

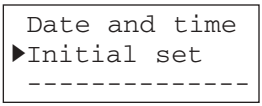
The Auto Talk feature allows you to answer a call by lifting the handset off the base unit or the charger without pressing [TALK] or [SPEAKER]. If you want to use this feature, turn the feature ON by programming. Your phone comes from the factory set to OFF.

Make sure the unit is not being used and the handset is lifted off the base unit.

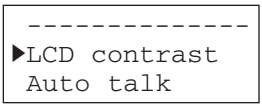
1 Press **MUTE/FUNCTION**.



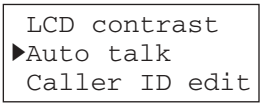
2 Scroll to "Initial set" by pressing ▼ or ▲.



3 Press ▶.



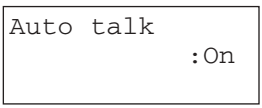
4 Scroll to "Auto talk" by pressing ▼ or ▲.



5 Press ▶.
- The current setting is displayed.

6 Select "On" or "Off" by pressing ▼ or ▲.

7 Press ▶ (Save key).
- A beep sounds.
- To exit the programming mode, press **OFF**.



- You can exit the programming mode any time by pressing **OFF**.
- In order to view Caller ID information after you lift up the handset to answer a call, leave the Auto Talk feature OFF.

Ringer Volume

You can program the handset ringer volume to HIGH, MEDIUM, LOW or OFF. If set to OFF, the handset will not ring for external calls, and for internal calls it will ring at the LOW level. Your phone comes from the factory set to HIGH.

Make sure the unit is not being used and the handset is lifted off the base unit.

1 Press **MUTE/FUNCTION**.

2 Scroll to "`Ringer setting`" by pressing ▼ or ▲, and press ►.

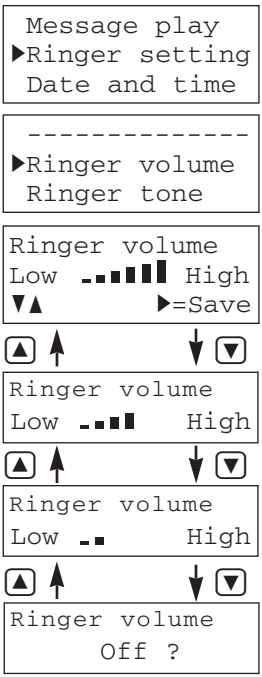
3 Press ► at "`Ringer volume`".

4 Select the desired volume by pressing ▼ or ▲.

- Each time you press ▼ or ▲, the volume will change and ring.
- **To turn the ringer OFF:** press ▼ repeatedly until "`Off ?`" is displayed.

5 Press ► (`Save` key).

- A beep sounds.



To turn the ringer ON:

Press ▲ in step 4.

- The ringer will sound at the LOW level.

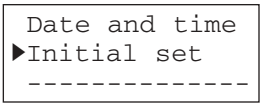
- You can exit the programming mode any time by pressing **OFF**.
- If set to OFF, "`Ringer off`" will be displayed while the handset is not in use.
- If you have received new calls, "`Ringer off`" will not be displayed but "`Received calls`" will be displayed while the handset is not in use. "`Ringer off`" will be displayed for about 5 seconds after completing operations or lifting the handset from the base unit or the charger.
- You can also select the ringer volume while an external call is being received. Press ▼ or ▲ while the handset is just ringing.
- You can change the ringer tone for external calls. See page 48.

LCD Contrast

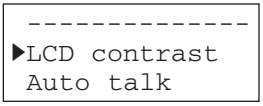
You can program the handset LCD contrast (6 levels). Your phone comes from the factory set to level 3.
Make sure the unit is not being used and the handset is lifted off the base unit.

1 Press **MUTE/FUNCTION**.

2 Scroll to "Initial set" by pressing ▼ or ▲, and press ▶.



3 Press ▶ at "LCD contrast".



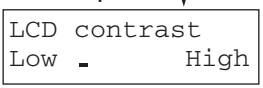
4 Select the desired contrast by pressing ▼ or ▲.
- Each time you press ▼ or ▲, the LCD contrast will change.
- The number of steps shows the LCD contrast level.

5 Press ▶ (Save key).
- A beep sounds.
- To exit the programming mode, press **OFF**.

Level 6

Level 4

Level 1



- You can exit the programming mode any time by pressing **OFF**.

Greeting Message

You can record a personal greeting message of **up to 2 minutes**. If a greeting message is not recorded, one of two pre-recorded greetings will be played when a call is received (p. 22).

The **total recording time** of all messages (greeting, incoming) is **about 15 minutes**. We recommend you record **a brief greeting message** (p. 22) in order to leave more time for recording new messages.

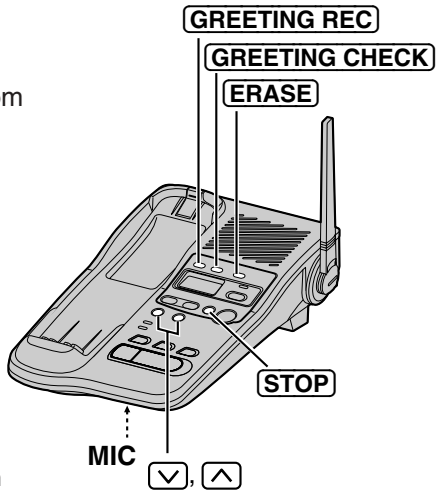
To record a greeting message

1 Press **GREETING REC** to start the recording mode.
- "Press RECORD again to record greeting" is heard.

2 Within 5 seconds, press **GREETING REC** again to record your greeting.
- A long beep sounds.

3 After the long beep, talk clearly, about 20 cm (8 inches) away from the **MIC** (microphone).
- The base unit display shows the elapsed recording time.
- If you record for over 2 minutes, the unit will automatically stop recording.

4 When finished, press **GREETING REC**.
- You can also finish recording by pressing **STOP**.
- To change the greeting, start again from step 1.



- If "E" is displayed, 6 beeps sound and "Your greeting was not recorded. Record your greeting again." is announced, start again from step 1.

Greeting message sample:
"Hello, this is (your name and/or number). Sorry I cannot take your call. Please leave a message after the beep. Thank you."

To adjust the speaker volume:
9 levels (0–8) are available while using the Answering System. To increase, press ⌃. To decrease, press ⌄.

Ex. Level 8

To check the recorded greeting message

Press **GREETING CHECK**.

•The greeting message will be played.

To erase the recorded greeting message

Press **GREETING CHECK**, and then press **ERASE** while the message is being played.

•The unit will answer a call with a pre-recorded greeting message.

Pre-recorded greeting message

If you do not record a greeting message (p. 21), one of two messages will be played when a call is received, depending on the caller's recording time (p. 23).

To check the pre-recorded greeting, press **GREETING CHECK**.

•A pre-recorded greeting will be played as follows:

■ When the recording time is set to "1 minute", "2 minutes" or "3 minutes":
"Hello, we are not available now. Please leave your name and phone number after the beep. We will return your call."

■ When the recording time is set to "Greeting only":
"Hello, we are not available now. Please call again. Thank you for your call."

Flash Memory Message Backup (Message storage)
Messages are stored on a "flash memory" IC chip and will not be affected by power failures. All messages are saved until you erase them.

Caller's Recording Time

You can select "1 minute", "2 minutes", "3 minutes" or "Greeting only" for the caller's recording time. Your phone comes from the factory set to "3 minutes".

Make sure the unit is not being used and the handset is lifted off the base unit.

1 Press **MUTE/FUNCTION**.

2 Scroll to "`Initial set`" by pressing ▼ or ▲, and press ▶.

```
 Date and time
▶Initial set
 --------------
```

3 Scroll to "`Set answering`" by pressing ▼ or ▲, and press ▶.

```
 Set tel line
▶Set answering
 HS register
```

4 Scroll to "`Recording time`" by pressing ▼ or ▲.

```
 No. of rings
▶Recording time
 Remote code
```

5 Press ▶.
- The current setting is displayed.

```
Recording time
 :3min
▼▲          ▶=Save
```

6 Select the recording time by pressing ▼ or ▲.
- You can also select the recording time by pressing 1 (1 minute), 2 (2 minutes), 3 (3 minutes) or 0 (Greeting only).

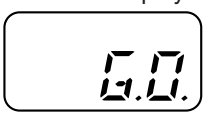
```
Recording time
 :Greeting only
▼▲          ▶=Save
```

7 Press ▶ (`Save` key).
- A beep sounds.
- To exit the programming mode, press **OFF**.

- You can exit the programming mode any time by pressing **OFF**.

If you select "Greeting only", the unit will answer a call with the greeting message, and then hang up. The unit will not record any incoming messages. The display will show " G.O. " instead of the number of messages.

Base unit display



Number of Rings

You can select the number of times the unit rings before the Answering System answers a call, from “2” to “7” or “Toll saver”*. The Answering System needs to be on. Your phone comes from the factory set to “4”.
Make sure the unit is not being used and the handset is lifted off the base unit.

1 Press **MUTE/FUNCTION**.

2 Scroll to “Initial set” by pressing ▼ or ▲, and press ▶.

```
 Date and time
▶Initial set
 --------------
```

3 Scroll to “Set answering” by pressing ▼ or ▲.

```
 Set tel line
▶Set answering
 HS register
```

4 Press ▶.

```
 --------------
▶No. of rings
 Recording time
```

5 Press ▶ at “No. of rings”.
•The current setting is displayed.

```
Number of rings
    :4
▼▲        ▶=Save
```

6 Select the number of rings by pressing ▼ or ▲.
•You can also select the number of rings by pressing 0 (Toll saver*), or 2 to 7.

```
Number of rings
    :Toll saver
▼▲        ▶=Save
```

7 Press ▶ (Save key).
•A beep sounds.
•To exit the programming mode, press **OFF**.

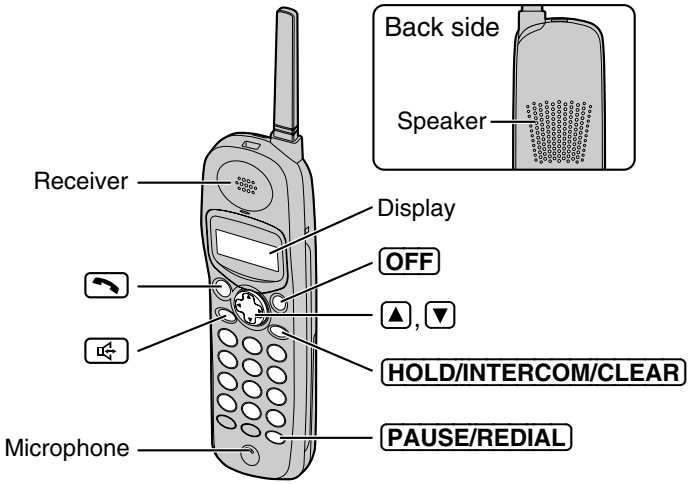
•You can exit the programming mode any time by pressing **OFF**.

***Toll saver**
When you call the unit from outside:
If the unit answers on the 2nd ring, there is at least one new message.
If the unit answers on the 4th ring, there are no new messages.
Hang up when you hear the 3rd ring. This will save you the toll charge for the call.

System Capabilities (Operating More Than One Handset)

At most 3 extensions (3 handsets or 2 handsets and base unit) can operate at a time. But during a conference call (p. 45), only 2 handsets can be used. If the 3rd handset tries to join, its LCD displays "Busy" and it will not join the conversation.

Using the Handset



1 Press [TALK].

Talk

2 Dial a phone number.
- The dialed number is displayed.
- After a few seconds, the display will show the length of the call and the battery strength.

Talk
1112222

Talk
00-00-00 [▮▮▮]

3 To hang up, press [OFF] or place the handset on the base unit or the charger.

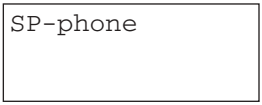
Off
00-01-08 [▮▮▮]

- When a handset is engaged in an outside call, "Line in use" is shown on the display of other handsets.

For assistance, please call: 1-800-211-PANA(7262)

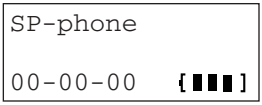
To have a hands-free phone conversation (Using Digital Duplex Speakerphone)

1 Press [SP-phone].

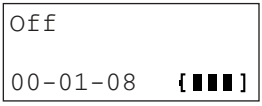


2 Dial a phone number.
- The dialed number is displayed.
- After a few seconds, the display will show the length of the call and the battery strength.

3 When the other party answers, talk into the microphone.



4 To hang up, press **OFF** or place the handset on the base unit or the charger.



Hands-free Digital Duplex Speakerphone

For best performance, please note the following:
- Talk alternately with the caller in a quiet room.
- If the other party has difficulty hearing you, press [▼] to decrease the speaker volume.
- If the other party's voice from the speaker cuts in/out during a conversation, press [▼] to decrease the speaker volume.
- While talking using [ ], you can switch to the hands-free phone conversation by pressing [SP-phone]. To switch back to the receiver, press [ ].

To dial after confirming the entered number

1 Dial a phone number.

•If you misdial, press **HOLD/INTERCOM/CLEAR**. One digit is erased. Dial the correct phone number.

•To cancel, press **OFF**.

2 Press .

OR

To have a hands-free phone conversation, press , and when the other party answers, talk into the microphone.

•After a few seconds, the display will show the length of the call and the battery strength.

Ex. was pressed.

3 To hang up, press **OFF** or place the handset on the base unit or the charger.

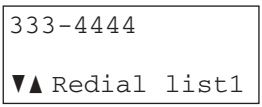
To redial the last number dialed on the handset

Press or and press **PAUSE/REDIAL**.

To redial using the redial list (Memory Redial)

The last 5 phone numbers dialed with the handset are stored in the redial list.

1. Press **PAUSE/REDIAL**.
   •The last number dialed is displayed.
2. Scroll to the desired number by pressing ▼ or ▲.
   •You can also scroll through the list by pressing **PAUSE/REDIAL**.
   •To exit the list, press **OFF**.
3. Press or .



•**To erase an item**, repeat steps 1 and 2, and press **HOLD/INTERCOM/CLEAR**.

•If "No items stored" is displayed, the list is empty.

To put a call on hold

Press **HOLD/INTERCOM/CLEAR** **twice**.

- The IN USE/HOLD indicator light flashes, "Hold" is displayed and the call is put on hold.

- To transfer the call to another handset, see page 44.
- If a call is kept holding for 6 minutes, an alarm tone will start to sound. After 4 additional minutes on hold the call will be disconnected.
- When you put the call on hold, "Line on hold" is shown on the display of other handsets.

To release the hold

Press or .

- Another handset user can also release the hold by pressing or .
- If another phone is connected on the same line (p. 60), you can also release the hold by lifting its handset.

To adjust the receiver volume (HIGH, MEDIUM or LOW) or speaker volume (6 levels) while talking

To increase, press ▲.
To decrease, press ▼.

Ex. Receiver volume: High
Speaker volume: Level 6

- Each time you press ▼ or ▲, the volume level will change.
- The number of steps indicates the volume level.
- The display will return to the length of the call.

Lighted handset keypad

The handset dialing buttons will light when you press a button, lift the handset off the base unit or the charger, or when a call is received. The lights will go out a few seconds after pressing a button, lifting the handset, answering a call, hanging up a call, leaving the programming mode or ending the intercom.

Backlit LCD display

The lighted handset display will stay on for a few seconds after pressing a handset button, lifting the handset off the base unit or the charger, hanging up a call, leaving the programming mode or ending the intercom.

Answering Calls

When a call is received, the unit rings and "Incoming call" is displayed on the handset and the IN USE/HOLD indicator flashes quickly on the base unit.
If you subscribe to a Caller ID service, the calling party information will be displayed after the first ring (p. 30). In order to view the Caller ID information, please wait until the second ring to answer a call.

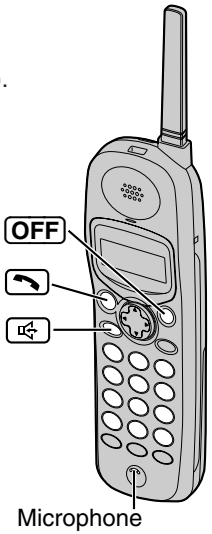
1 Press [TALK].

- You can also answer a call by pressing any dialing button [0] to [9], [*] or [#] (**Any Key Talk**).

OR

Press [SP-PHONE], and when the other party answers, talk into the microphone.

2 To hang up, press [OFF].



Auto Talk

If you set the Auto Talk feature to ON (p. 18), you can answer a call by lifting the handset off the base unit or the charger without pressing [TALK] or [SP-PHONE].

Caller ID Service

This unit is compatible with a Caller ID service offered by your telephone company. If you subscribe to a Caller ID service, the calling party's information will be shown on the handset after the first ring.

The handset can record information of up to 30 different callers, including the time and date received and the number of times called, in the Caller List. The Caller List information is sorted by the most recent to the oldest call. When the 31st call is received, the first call is deleted.

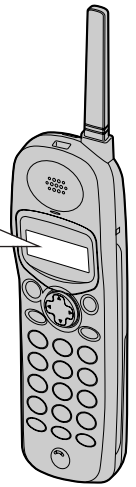
Using the list, you can automatically call back a caller. You can store the callers' names and numbers from the Caller List into the directory.
If you subscribe to both Caller ID and Call Waiting services, when a second call is received while talking, the new caller's name and phone number will be displayed (p. 46).

How caller information is displayed when a call is received

The handset display shows the caller's name and phone number after the first ring.

ROBINSON,TINA
1-000-222-3333

•After you answer the call, the display will show the length of the call.



•Caller information cannot be displayed in the following cases:
—If the caller dialed from an area which does not provide a Caller ID service, the display will show "Out of area".
—If the caller has requested not to display his/her information, the display will show "Private caller".

•If your unit is connected to a PBX which does not support Caller ID services, you cannot access those services.
•The name display service may not be available in some areas. For further information, please contact your telephone company.
•If the handset has lost communication with the base unit when a call is received, the caller information will not be recorded in the Caller List.

Using the Caller List

If you have received new calls, "Received calls" will be displayed while the handset is not in use.

Handset on the base unit

```
            [1]
Received calls
          {■■■]
```

Handset off the base unit

```
            [1]
Received calls▼
          {■■■]
```

Viewing the Caller List

To check who has called, follow the steps below.
Make sure the unit is not being used and the handset is lifted off the base unit.

1 Press ▼ or ▲ to enter the Caller List.

•The display will show, for example, the following.

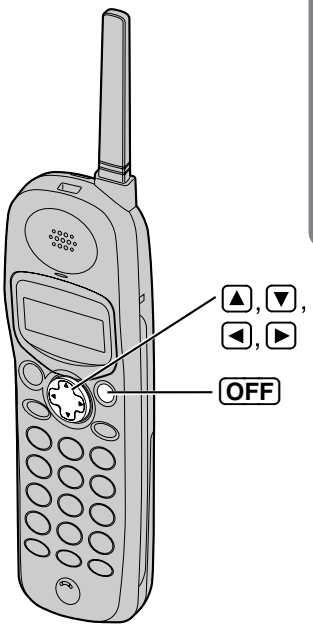
```
Caller list
  2 new calls
▼▲  ▶=Directory
```

2 To search from the most recent call, press ▼.
To search from the oldest call, press ▲.

•To scroll between callers, press ▼ or ▲.

```
SMITH,JACK
1-222-333-4444
 3:10P JUN10
```

3 To exit the list, press OFF.



•If "No items stored" is displayed, the Caller List is empty.
•If there is no name information for a caller, the display will only show the phone number.
•After viewing all of the new call entries in the Caller List, "Received calls" will disappear.
•Once new calls have been checked, "√" will be added to caller information.
•Each handset has the Caller List individually. If you checked the Caller List on your handset, Caller List information in the other handsets will remain still NEW and "√" will not be added.
•In step 1, you can go to the directory list by pressing ► (p. 39).
•If you do not press any buttons for 60 seconds, the handset will exit the Caller List.

What "√" means

When the display shows "√", you have already viewed this calling information, answered the call or called back the caller. If the same caller calls again, the call entry with "√" will be replaced with the new call entry.

```
SMITH,JACK
1-222-333-4444
 3:10P JUN10 √
```

If a caller calls more than once

The number of times the same caller called is displayed (×2 to ×9). The date and time of the most recent call will be recorded. After checking, ×2 to ×9 will be replaced with "√".

Ex. The caller called 3 times.

```
TURNER,CINDY
1-234-456-7890
11:20A JAN12 ×3
```

Calling Back from the Caller List

1 Press ▼ or ▲ to enter the Caller List.

```
Caller list
  3 new calls
▼▲  ▶=Directory
```

2 Scroll to the desired caller by pressing ▼ or ▲.

```
TURNER,CINDY
1-234-456-7890
11:20A JAN12 ×3
```

3 Press ☎ or 🔊.
- The displayed phone number is dialed automatically.

Ex. Talk mode

```
Talk
12344567890
```

- In some cases, you may have to edit the number before dialing (p. 33). (Ex. You may have to delete "1" and the area code.)
- If a phone number is not displayed in the caller information, you cannot call back that caller.

Editing the Caller's Phone Number

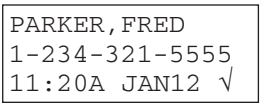
You can edit a phone number into one of 3 patterns to call back or store it into the directory.

The Caller ID Number Auto Edit Feature (p. 34)
This feature will allow the unit to edit a Caller ID number into one of 3 patterns you desired for you automatically in the Caller List. For details and activation please see page 34.

Make sure the unit is not being used and the handset is lifted off the base unit.

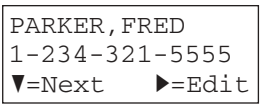
1 Press ▼ or ▲ to enter the Caller List.

2 Scroll to the desired caller by pressing ▼ or ▲.



3 Press ▶.

4 Press ▶ (`Yes` key) at "`Edit`".



5 Press ▶ (`Edit` key) to select a pattern.

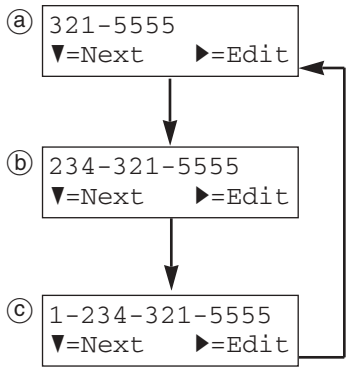
- Each time you press ▶, the number is rearranged into one of 3 patterns.

ⓐ Phone no.

ⓑ Area code – Phone no.

ⓒ 1 – Area code – Phone no.

- The order in which patterns ⓐ–ⓒ are displayed depends on how the telephone number is displayed in step 2.



6 After editing the number, you can continue with calling back or storing procedures.
To call back, press [TALK] or [SP-PHONE] (p. 32).
To store the number in the directory, press ▼ (`Next` key) and press ▶ (`Save` key). (If the caller has no name information, see page 35, from step 3.)

The Caller ID Number Auto Edit Feature

There are 3 patterns of phone number (ⓐ, ⓑ, and ⓒ on p. 33). This feature allows your phone to automatically edit an in-coming Caller ID number into one pattern you preferred, and display the Caller ID number with that pattern on the handset automatically.

After this feature is activated, Caller ID numbers coming from considered area codes (201, for example), from which the Caller ID numbers have been chosen to follow the desired pattern (7 digit pattern, for example), will be automatically edited from other patterns (11 digit pattern, for example) into the same pattern you have previously selected (which is 7 digit pattern, in the example).

Up to 4 area codes are allowed for this feature for patterns ⓐ, ⓑ and ⓒ (p. 33).

To activate this feature, you must (1) set this feature to on, and (2) make an out-going call from Caller List (p. 32) with a number which has one of 3 patterns that you have edited with considered area code, and that you prefer to be followed by future Caller ID numbers, so that in the future all the Caller ID numbers coming from the same area code will be displayed in the same pattern.

The Caller ID number Auto Edit feature is preset to ON at factory.

- If you fail to reach your destination when making the call, the phone number you dialed might have an incorrect pattern, please edit the phone number with another pattern (p. 33).

For example, if you move to another area, you may need to turn this feature to OFF to erase previously edited area codes. Then, if still need, you may activate this feature again.

Make sure the unit is not being used and the handset is lifted off the base unit.

1. Press **MUTE/FUNCTION**.
2. Scroll to "`Initial set`" by pressing ▼ or ▲, and press ▶.

```
 Date and time
▶Initial set
 --------------
```

3. Scroll to "`Caller ID edit`" by pressing ▼ or ▲, and press ▶.

```
 Auto talk
▶Caller ID edit
 Set tel line
```

4. Select "`On`" or "`Off`" by pressing ▼ or ▲.

```
Auto edit
                :On
▼▲           ▶=Save
```

5. Press ▶ (`Save` key).
   - A beep sounds.
   - To exit the programming mode, press **OFF**.

- When the feature is set to OFF, the unit will still be able to display Caller ID, like regular Caller ID telephone, but the in-coming Caller ID number will not be edited by pattern and by area codes.

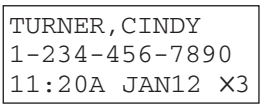
Storing Caller List Information in the Directory

You can store phone numbers that are in the Caller List into the directory. **Make sure the unit is not being used and the handset is lifted off the base unit.**

1 Press ▼ or ▲ to enter the Caller List.

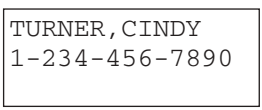
2 Scroll to the caller you want to store in the directory by pressing ▼ or ▲, and press ▶.

- If the number requires editing, see page 33.



3 Scroll to "`Save directory`" by pressing ▼ or ▲, and press ▶.

- A beep sounds.
- To continue storing other items, repeat from step 2.
- To exit the programming mode, press **OFF**.

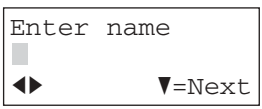


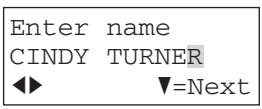
If there is no name information for the caller, "`Enter name`" will be displayed.

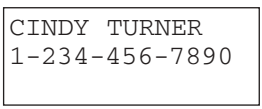
a) If a name is not required, press ▼ (`Next` key) and press ▶ (`Save` key).

b) If a name is required, enter the name (p. 38). When finished, press ▼ (`Next` key) and press ▶ (`Save` key).

- A beep sounds.
- To continue storing other items, repeat from step 2.
- To exit the programming mode, press **OFF**.







- You can exit the programming mode any time by pressing **OFF**.
- If the display shows "`Directory full`" in step 3, press **OFF** to exit the list. To erase other stored items from the directory, see page 41.
- You cannot store caller information in the directory if a phone number is not displayed.

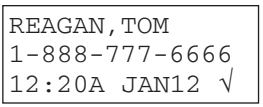
Erasing Caller List Information

After checking the Caller List, you can erase some or all of the entries. **Make sure the unit is not being used and the handset is lifted off the base unit.**

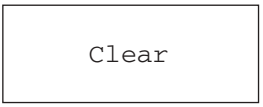
To erase a specific caller from the Caller List

1 Press ▼ or ▲ to enter the Caller List.

2 Scroll to the caller you want to erase from the Caller List by pressing ▼ or ▲.



3 Press **HOLD/INTERCOM/CLEAR**.
- A beep sounds and the information is erased.
- To erase other items, repeat from step 2.
- To exit the Caller List, press **OFF**.

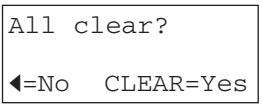


To erase all entries in the Caller List

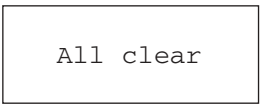
Before erasing all entries, make sure that "0 new call" is displayed.

1 Press ▼ or ▲ to enter the Caller List.

2 Press **HOLD/INTERCOM/CLEAR**.
- To stop erasing, press ◀ (No).



3 Press **HOLD/INTERCOM/CLEAR**.
- A beep sounds and all entries are erased.



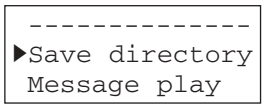
Directory

You can store up to 30 names and phone numbers in the directory using the handset. All of the directory items are sorted by the first word in alphabetical order. You can make a call by selecting a name on the handset display.
Each handset has the directory list individually.

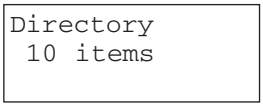
Storing Names and Numbers

Make sure the unit is not being used and the handset is lifted off the base unit.

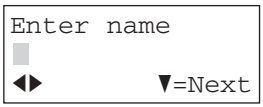
1 Press **MUTE/FUNCTION**.

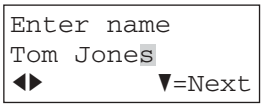


2 Press ▶ at "Save directory".
- The display shows the number of stored items in the directory.

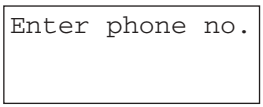


3 Enter a name, up to 15 characters with the dialing buttons, (0 to 9) (p. 38).
- If a name is not required, press ▼ (Next key) and go to step 5.
- To move the cursor, press ◀ or ▶.

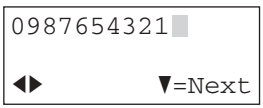




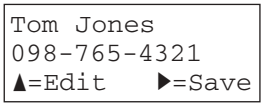
4 Press ▼ (Next key).



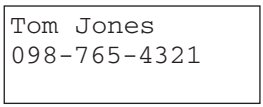
5 Enter a phone number, up to 22 digits.
- Each time you press **HOLD/INTERCOM/CLEAR**, a digit is erased. To erase all of the digits, press and hold **HOLD/INTERCOM/CLEAR**.
- To move the cursor, press ◀ or ▶.



6 Press ▼ (Next key).
- If you want to change the name or number, press ▲ (Edit key) to reach the desired display and change it.



7 Press ▶ (Save key).
- A beep sounds.
- To continue storing other items, repeat from step 2.
- To exit the programming mode, press **OFF**.



- If a pause is required for dialing, **PAUSE/REDIAL** can be stored in a phone number counting as one digit in step 5.
- You can exit the programming mode any time by pressing **OFF**.
- If the display shows "`Directory full`" in step 2, the display will return to step 1, press **OFF** to exit the programming mode. To erase other stored items from the directory, see page 41.

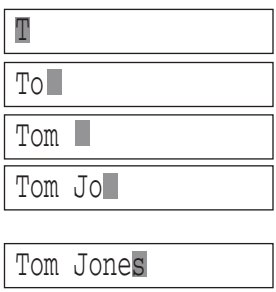
Selecting characters to enter names

The handset dialing buttons (0 to 9) can be used to enter letters and symbols. The letters are printed on the dialing buttons. Pressing each button selects a character as shown below.

Keys	Number of times key is pressed										
	1	2	3	4	5	6	7	8	9	10	11
1	#	&	’	(	)	*	,	–	.	/	1
2	a	b	c	A	B	C	2				
3	d	e	f	D	E	F	3				
4	g	h	i	G	H	I	4				
5	j	k	l	J	K	L	5				
6	m	n	o	M	N	O	6				
7	p	q	r	s	P	Q	R	S	7		
8	t	u	v	T	U	V	8				
9	w	x	y	z	W	X	Y	Z	9		
0	0	Blank									
◄	Moves the cursor to the left.										
►	Moves the cursor to the right. (To enter another character using the same number key, move the cursor to the next space.)										
HOLD/INTERCOM/CLEAR erases characters.											

For example, to enter "Tom Jones":

1. Press 8 four times.
2. Press 6 three times, then press ►.
3. Press 6 once, then press ► twice.
4. Press 5 four times, press 6 three times, then press ►.
5. Press 6 twice, press 3 twice, then press 7 four times.



If you make a mistake while entering a name:
Press ◄ or ► to move the cursor to the incorrect character, press **HOLD/INTERCOM/CLEAR** to delete and enter the correct character. Each time you press **HOLD/INTERCOM/CLEAR** a character is erased. To erase all characters, press and hold **HOLD/INTERCOM/CLEAR**.

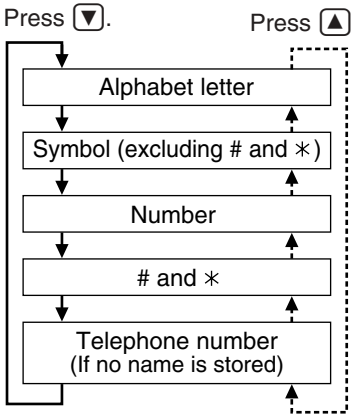
Dialing from the Directory

Make sure the unit is not being used and the handset is lifted off the base unit.

1 Press ◄ or ► to enter the directory list.
- The display shows the number of stored items in the directory.

```
Directory list
 30 items
▼▲   ▶=Caller
```

2 Scroll to the desired item by pressing ▼ or ▲.
- All directory items are stored in the order shown on the right.



To search for a name by initial:
①Press the dialing button for the first letter of the desired name until any name with the same initial is displayed (see the Index table below).
Ex. To find "Frank", press 3 repeatedly until the first item under "F" is displayed.

②Press ▼ repeatedly until the name is displayed.

```
Frank
098-765-4321
```

3 Press or .
- The number is dialed automatically.

- If "No items stored" is displayed in step 1, the directory list is empty.
- You can leave the directory list any time by pressing **OFF**.
- In step 1, you can go to the Caller List by pressing ► (p. 31).

Index table

Keys	Index	Keys	Index
1	Other symbols, 1	6	M, N, O, 6
2	A, B, C, 2	7	P, Q, R, S, 7
3	D, E, F, 3	8	T, U, V, 8
4	G, H, I, 4	9	W, X, Y, Z, 9
5	J, K, L, 5	0	0, Blank

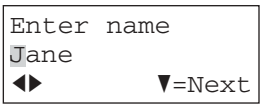
Editing

Make sure the unit is not being used and the handset is lifted off the base unit.

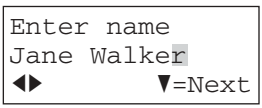
1 Press ◄ or ► to enter the directory list.

2 Scroll to the directory item you want to change by pressing ▼ or ▲, and press ►.

•To search for the item by initial, see page 39.

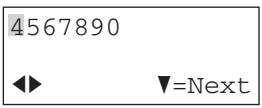


3 Edit the name using the dialing buttons, up to 15 characters.

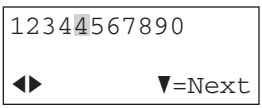


•To move the cursor, press ◄ or ►.
•If you do not need to change the name, press ▼ (Next key) and go to step 5.

4 Press ▼ (Next key).

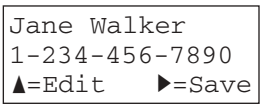


5 Add a number to the current number.



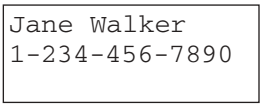
•If you do not need to change the number, press ▼ (Next key) and go to step 7.
•Each time you press **HOLD/INTERCOM/CLEAR**, a digit is erased. To erase all digits, press and hold **HOLD/INTERCOM/CLEAR**.
•To move the cursor, press ◄ or ►.

6 Press ▼ (Next key).



•If you want to change the name or number, press ▲ (Edit key) to reach the desired display and change it.

7 When finished, press ► (Save key).



•A beep sounds.
•To continue editing other items, repeat from step 2.
•To exit the directory list, press **OFF**.

•You can exit the edit mode any time by pressing **OFF**.

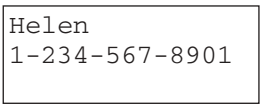
Erasing

Make sure the unit is not being used and the handset is lifted off the base unit.

1 Press ◄ or ► to enter the directory list.

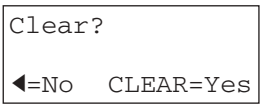
2 Scroll to the directory item that you want to erase by pressing ▼ or ▲.

•To search for the item by initial, see page 39.



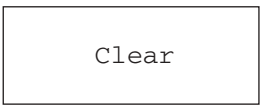
3 Press **HOLD/INTERCOM/CLEAR**.

•To stop erasing, press ◄ (No key).



4 Press **HOLD/INTERCOM/CLEAR**.

•A beep sounds and the item is erased.
•To erase other items, repeat from step 2.
•To exit the directory list, press **OFF**.



•You can exit the programming mode any time by pressing **OFF**.

Intercom

A 2-way intercom is possible between the handset and the base unit or between two handsets. You can call all handsets from the base unit at once.
Page the desired unit(s) by entering the extension number, shown in the top right of each handset's display (p. 10). The base unit's extension number is 0.

Making Intercom Calls

Handset

1 Press **HOLD/INTERCOM/CLEAR**.

```
Press
handset#[1-3]
or [0] for base
```

2 **To page the base unit,** press **0**.
- The base unit will ring for 1 minute.

```
Calling [0]
```

To page another handset,
press **HOLD/INTERCOM/CLEAR**, and enter the extension number using the dialing button (**1** to **3**).
- The destination handset will ring for 1 minute.
- To stop paging, press **OFF**.

Ex. Calling Handset 2

```
Calling [2]
```

3 When the paged party answers, talk into the handset.
- You can switch to the speaker by pressing . To switch back to the receiver, press .

```
Intercom

00-00-03   [▮▮▮]
```

4 To end the intercom, press **OFF**.

```
Off

00-00-50   [▮▮▮]
```

Base unit

Using this feature, you can also locate a misplaced handset.

1 **To page the handset**, enter the extension number, using the **HANDSET LOCATOR/INTERCOM** (**1** to **3**).
- The IN USE/HOLD indicator flashes.
- The handset will ring for 1 minute.
- To stop paging, press **HANDSET LOCATOR/INTERCOM** (**ALL** or **1** to **3**).

2 When the paged party answers, talk into the **MIC**.

3 To end the intercom, press **HANDSET LOCATOR/INTERCOM** **ALL**.

To page all handsets, press **HANDSET LOCATOR/INTERCOM** (ALL).

- All handsets will ring for 1 minute.
- You can only talk with the handset user who answers first.

During an intercom call:

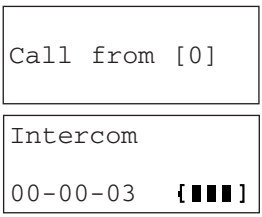
- If you have difficulty hearing the other party, decrease the speaker volume by pressing (▼) or (⌄).
- If an incoming call is being received, you will hear two tones (incoming call tone, p. 48) and the IN USE/HOLD indicator on the base unit will flash quickly. To answer, press (OFF) and press (☎) or (🔊).
- If the handset detects a problem, an error message will be displayed (p. 64).

Answering Intercom Calls

Handset

When an intercom call is being received, the handset rings and the display shows the calling extension.

Ex. Base calling



Press (☎), (🔊) or (HOLD/INTERCOM/CLEAR).

- You can also answer the call by pressing any dialing button (0) to (9), (*) or (#) (**Any Key Talk**).

To end the intercom, press (OFF) or place the handset on the base unit or the charger.

Auto Talk:
If you set the Auto Talk feature to ON (p. 18), you can answer a call by lifting the handset off the base unit or the charger without pressing (☎), (🔊) or (HOLD/INTERCOM/CLEAR).

Base unit

When an intercom call is being received, the base unit rings and the IN USE/HOLD indicator flashes.

Press **HANDSET LOCATOR/INTERCOM** (ALL).

To end the intercom, press **HANDSET LOCATOR/INTERCOM** (ALL).

- When the ringer volume is off (p. 19), the handset will ring at the LOW level for internal calls.
- You cannot change the ringer tone for internal calls.

Transferring a Call

You can transfer an external call between two handsets.

To transfer a call from the handset

1 During a call, press **HOLD/INTERCOM/CLEAR**.
- The IN USE/HOLD indicator flashes and the call is put on hold.

```
Line on hold.
Press handset#
to transfer:1-3
```

2 To page another handset, enter the extension number using the dialing button (1 to 3).

Ex. Calling Handset 2

```
Hold
Calling [2]
```

3 If required, wait for the paged party to answer, and you can announce the transfer. If not required, go to step 4.
- If the paged party does not answer, press or to return to the outside call.

```
Intercom hold
   ◄=Conference
00-00-05   [■■■]
```

4 To complete the transfer, press **OFF**.

To answer from another handset a transferred call:

–If the paging party announces the transfer, the calling extension is displayed. Press , or **HOLD/INTERCOM/CLEAR** to answer the page.
- After the paging party hangs up the call, you can talk to the outside caller.

```
Call from [1]
```

–If the paging party hangs up before you answer the page, "Incoming call" is displayed. Press or to take the transferred call.

```
Incoming call
```

- Any users can take a transferred call by pressing or .
- If you do not announce the transfer and if the paged party does not answer within 60 seconds after you hang up, the transferred call will be returned to you with ringing. If you still do not answer the caller's call within 4 minutes, the call will be disconnected. You may answer the caller by pressing or before or during the ringing.

Conference Calls

While you are talking with an outside caller, you can make a conference call with your handset and another handset.

Ex. A conference call with Handset 1 and 2.

1 During a call, press **HOLD/INTERCOM/CLEAR**.
- The IN USE/HOLD indicator flashes and the call is put on hold.

```
Line on hold.
Press handset#
to transfer:1-3
```

2 To page another handset, enter the extension number using the dialing button (1 to 3).

Ex. Calling Handset 2

```
Hold
Calling [2]
```

3 When the paged party answers, press ◄ (Conference) on your handset to make a conference call.
- To leave the conference, press **OFF**. The two other parties can continue the conversation.

Ex. Intercom hold with Handset 1

```
Intercom hold
   ◄=Conference
00-00-05   [■■■]
```

```
Conference

00-00-05   [■■■]
```

- During a conference, the outside call can be placed on hold by pressing **HOLD/INTERCOM/CLEAR** on the handset. Internal communications between extensions are not suspended. Only the person who placed the call on hold can resume the full conference; press ◄ on the handset.

Call Share

This feature allows the handset to join the existing external call. A handset user can join another handset user's conversation.

To join a conversation (Call Share)

Press ☎ or 🔊.

```
Conference

00-00-05   [■■■]
```

- A maximum of three parties including the outside party can join a conversation if all other extensions are not being used.

  Ex. While the handset is engaged in an external call, another extension can join the conversation. In that event, the 3rd handset cannot join the conversation.

Special Features

Temporary Tone Dialing
(For Rotary or Pulse Service Users)

Press ✱ before entering access numbers which require tone dialing.

- The dialing mode changes to tone. You can enter numbers to access an answering service, electronic banking service, etc. When you hang up, the mode will return to pulse.

Muting Your Conversation

Press **MUTE/FUNCTION** while talking.

- The display on the right will be shown.

Ex. **MUTE/FUNCTION** was pressed.

```
Talk

<Mute>        [▮▮▮]
```

- The other party cannot hear your voice but you can hear theirs.
- **To release the mute**, press **MUTE/FUNCTION** on the handset.
- When you switch between the receiver and speaker, the mute will be released.

For Call Waiting Service Users

Press **FLASH/CALL WAIT** if you hear a call-waiting tone while talking.

- The first call is put on hold and you can answer the second call.
- To return to the first caller, press **FLASH/CALL WAIT** again.
- The call waiting service cannot be used when:
  - —the first call is placed on hold,
  - —the Answering System is recording someone's message, or
  - —a parallel connected telephone is in use.
- If this function does not operate properly, consult your telephone company for details.

Call Waiting Caller ID Feature

Call Waiting Caller ID Feature allows your handset to display the second caller's information. After you hear a call-waiting tone while talking, the handset will display the caller's name with the phone number and "----Waiting----".

```
BROWN,NANCY
1-555-666-7777
----Waiting----
```

- Please contact your telephone company for details and availability in your area.

How to Use the PAUSE Button
(For PBX Line/Long Distance Calls)

We recommend you press **PAUSE/REDIAL** if a pause is required for dialing with a PBX or to make a long distance call.
Ex. Line access number **9** (PBX)

9 ➡ **PAUSE/REDIAL** ➡ Phone number

- Pressing **PAUSE/REDIAL** once creates a 3.5 second pause. This prevents misdialing when you redial or dial a stored number.
- Pressing **PAUSE/REDIAL** more than once increases the length of the pause between numbers.

FLASH Button

Pressing **FLASH/CALL WAIT** allows you to use special features of your host PBX such as transferring an extension call or accessing special telephone services (optional) such as call waiting.

- Pressing **FLASH/CALL WAIT** causes to disable the Temporary Tone Dialing mode or the mute (p. 46).

Selecting the flash time

The flash time depends on your telephone exchange or host PBX.
You can select the following flash times: “700, 600, 400, 300, 250, 110, 100 or 90 ms (milliseconds)”. Your phone comes from the factory set to “700 ms”.
Make sure the unit is not being used and the handset is lifted off the base unit.

1 Press **MUTE/FUNCTION** and scroll to “`Initial set`” by pressing ▼ or ▲, and press ►.

2 Scroll to “`Set tel line`” by pressing ▼ or ▲, and press ►.

```
 Caller ID edit
▶Set tel line
 Set answering
```

3 Scroll to “`Set flash time`” by pressing ▼ or ▲, and press ►.
- The current setting is displayed.

```
 Set dial mode
▶Set flash time
 Set line mode
```

4 Select the flash time by pressing ▼ or ▲.

```
Set flash time
          :700ms
▼▲        ▶=Save
```

5 Press ► (`Save` key).
- A beep sounds.
- To exit the programming mode, press **OFF**.

- If the unit is connected via a PBX, PBX functions (transferring a call etc.) might not work correctly. Consult your PBX supplier for the correct setting.

Ringer Tone

You can select the handset ringer tone out of 6 patterns for external calls. When an external call is being received, the handset will ring in the selected tone. Your phone comes from the factory set to “1”.
Make sure the unit is not being used and the handset is lifted off the base unit.

1 Press **MUTE/FUNCTION**.

2 Scroll to “Ringer setting” by pressing ▼ or ▲, and press ▶.

```
 Message play
▶Ringer setting
 Date and time
```

3 Scroll to “Ringer tone” by pressing ▼ or ▲, and press ▶.
- The current setting will be displayed.

```
 Ringer volume
▶Ringer tone
 Incoming call
```

4 Select the desired ringer tone by pressing ▼ or ▲.
- Each time you press ▼ or ▲, the tone will change and ring. If the ringer volume has been set to OFF, the handset will not ring (p. 19).
- You can also select the ringer tone by pressing dialing buttons 1 to 6.

```
Ringer tone
              :1
▼▲          ▶=Save
```

5 Press ▶ (Save key).
- A beep sounds.
- To exit the programming mode, press **OFF**.

Incoming Call Tone

During an intercom call (p. 42), or while listening to messages on the handset (p. 52), you can be informed by two tones if a call arrives. If you set to ON, this incoming call tone will be heard for as long as the line rings. To delete the incoming call tone, set to OFF. To set the incoming call tone to sound twice, set to “2”. Your phone comes from the factory set to “2”.
Make sure the unit is not being used and the handset is lifted off the base unit.

1 Press **MUTE/FUNCTION** and scroll to “Ringer setting” by pressing ▼ or ▲, and press ▶.

```
 Message play
▶Ringer setting
 Date and time
```

2 Scroll to “Incoming call” by pressing ▼ or ▲, and press ▶.
- The current setting will be displayed.

```
 Ringer tone
▶Incoming call
 --------------
```

3 Select “On”, “Off” or “2” by pressing ▼ or ▲.

```
Incoming call
      tone :2
▼▲          ▶=Save
```

4 Press ▶ (Save key).
- A beep sounds.
- To exit the programming mode, press **OFF**.

Automatic Answering Operation

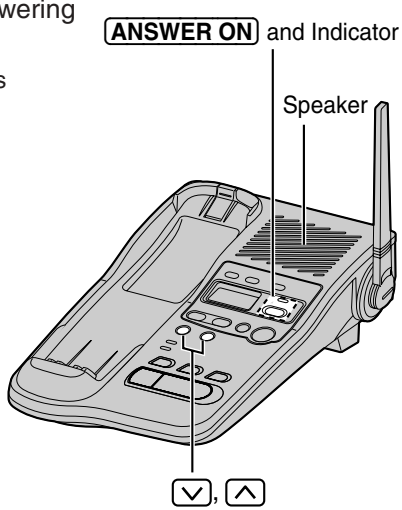
When the unit answers a call, a greeting message is played and the caller's message is recorded.

- The total recording time (including greeting message) is **about 15 minutes**. If messages are recorded in noisy rooms, the time may be shortened by up to 3 minutes.
- A maximum of 64 messages (including greeting message) can be recorded.

Setting the Unit to Answer Calls

Press **ANSWER ON** to turn on the Answering System.

- The indicator lights and the unit announces "Answer set" and the current day and time.
- The unit will announce the remaining recording time if it is less than 5 minutes.
- If you hear "Memory full", "**FULL**" is displayed on the base unit and the ANSWER ON indicator flashes rapidly, erase some, or all, of the messages (p. 51).



- If you do not want the unit to answer calls, press **ANSWER ON** again to turn off the Answering System. The indicator light goes out and "Answer off" is heard.
- You can also turn on the Answering System remotely using any other phone (p. 57).
- If you turn the Answering System on with "◴" flashing, "◴" will disappear but the clock is still incorrect. Adjust the date and time (p. 15). If you subscribe to a Caller ID service (p. 30), the caller ID information will adjust the clock.

Monitoring incoming calls

While a call is being recorded, you can monitor it through the base unit speaker.
To answer the call with the handset, press or . The unit stops recording.
- To increase the speaker volume, press . To decrease, press .

Listening to Messages

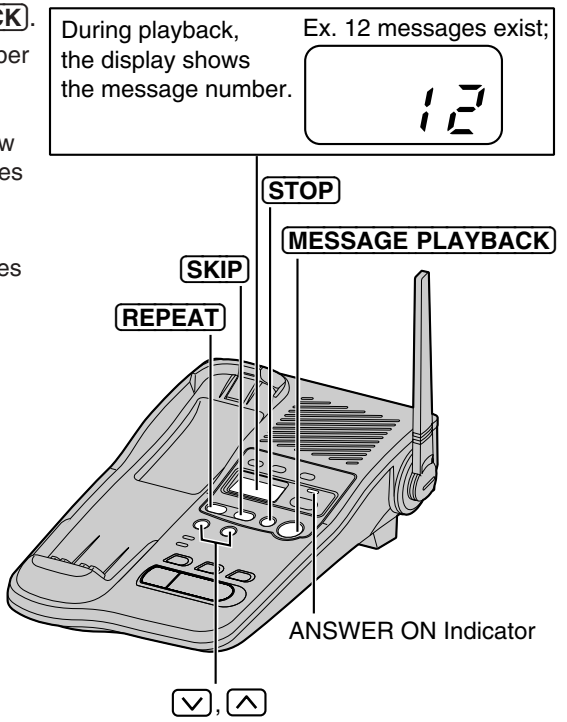
You can see the total number of recorded messages on the base unit display. If ANSWER ON indicator flashes, new messages have been recorded.

To listen to messages with the handset, see page 52.

To play back messages

Press **MESSAGE PLAYBACK**.

- The unit announces the number of new messages, and plays back the new messages.
- If old messages exist with new messages, only new messages will be played back.
- **When you have no new messages,** the unit announces "No new messages. All message playback", and plays back all messages.



To adjust the speaker volume:
9 levels (0–8) are available during playback.
To increase the volume, press VOLUME ^.
To decrease, press VOLUME v.

- At the end of the last message, "End of final message" is heard. The unit will announce the remaining recording time if it is less than 5 minutes.
- When the Answering System has no messages, the unit announces "No messages".

During playback

To **repeat** message	Press [REPEAT]. •If you press within 5 seconds of playback, the previous message will be played.
To **skip** message	Press [SKIP].
To **stop** operation	Press [STOP]. •To resume playback, press the [MESSAGE PLAYBACK]. •If you do not press any button for 60 seconds or if you press [STOP] again, the playback mode will be canceled.

Erasing Messages

The unit will announce the remaining recording time after playback, if it is less than 5 minutes. New messages cannot be recorded when:
—"Memory full" is heard.
—"FULL" is displayed on the base unit.
—the ANSWER ON indicator flashes rapidly (only when the Answering System is on).
Erase some, or all, of the messages. We recommend you erase unnecessary messages after each playback.

Erasing a specific message

Press [ERASE] while the message you want to erase is being played (p. 50).
•A short beep will sound and the message will be erased.
•The unit will continue to play the next message.

Erasing all messages

All recorded messages, except the greeting message, can be erased at one time.

1 Press [ERASE].
•"To erase all messages, press ERASE again" is heard.

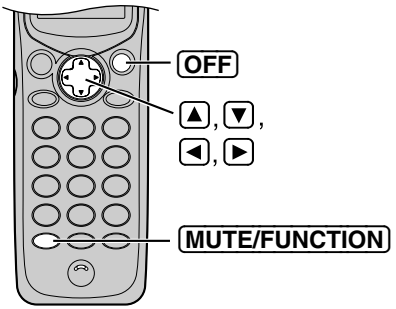
2 Within 5 seconds, press [ERASE] again.
•A beep sounds and "No messages" is heard.
•The base unit display shows "0".

•The information in the Caller List will not be erased. To erase Caller List information, see page 36.

Remote Operation with the Handset

You can access the Answering System from your handset and listen to messages.

If new messages have been recorded, "New message" will be displayed.



Handset off the base unit

```
New message [1]
Received calls▼
              [■■■]
```

Concerning new message indications on the base unit, see page 50.

To listen to messages

1 Press **MUTE/FUNCTION**.

2 Scroll to "Message play" by pressing ▼ or ▲, and press ▶.

```
 Save directory
▶Message play
 Ringer setting
```

- A beep sounds.
- The number of new messages will be announced from the speaker.
  To switch to the receiver, press .
  To switch back to the speaker, press .

```
4:New messages
5:All messages
◀Repeat    Skip▶
```

- **To play new messages**, press **4**.
- You can enter the desired **direct commands** for other functions (p. 53).
- If you do not enter a command, the voice menu will start (see below).
- After the voice menu, all message playback will start.

3 To end remote operation, press **OFF**.

- To adjust the speaker or receiver volume, press ▲ to increase and press ▼ to decrease.
- After listening to new messages, "New message" will disappear.

Voice menu

If no commands are entered after doing steps 1 and 2, or if no commands are entered after you heard new or all messages and "End of final message", the following voice menu will be heard through the handset.

"Press 4 to play back new messages. Press 5 to play back all messages."

- You can enter direct commands even if the voice menu has started.

- The unit will announce the remaining recording time after playback, if it is less than 5 minutes.
- If a call is being received during the remote operation, you will hear incoming call tones (p. 48). To answer the call, press [phone] or [speaker].
- If you hear "Memory full" after playback, erase some, or all, of the messages (see below).

Direct commands

[4] NEW MESSAGE PLAYBACK
- Only new messages are played back.

[5] ALL MESSAGE PLAYBACK
- All messages are played back.

[1] REPEAT (During playback)
- The current message is repeated.
- If you press within 5 seconds of playback, the previous message will be played.
- You can also press [◄] to repeat a message.

[2] SKIP (During playback)
- The current message is skipped. The next message is played.
- You can also press [►] to skip a message.

[9] STOP
- Operation is stopped temporarily.
- To resume operation, enter a direct command within 15 seconds, or the voice menu will start (p. 52).

[*][4] ERASING A SPECIFIC MESSAGE (During playback)
- The current message is erased.
- A short beep will sound and the next message will be played.

[*][5] ERASING ALL MESSAGES
- All recorded messages are erased.
- A long beep sounds, and "No messages" is heard.

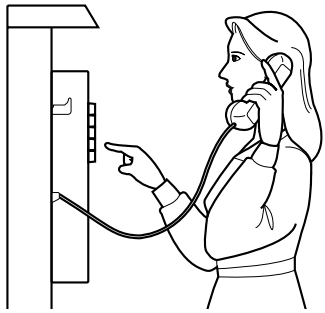
[0] ANSWERING SYSTEM OFF
- "Answer off" is heard and the Answering System is turned off.

[8] ANSWERING SYSTEM ON
- "Answer set" is heard and the Answering System is turned on.

Remote Operation from a Touch Tone Phone

You can operate the Answering System from any touch tone phone. A synthesized voice menu will guide you on how to operate the unit (p. 56).

- To skip the voice menu and operate the unit directly, see page 57.



Summary of remote operation

Call your unit from a touch tone phone.

↓

Enter your remote code (p. 55) during or after the greeting message.

- The number of new messages will be announced and the new messages will be played*.

↓

After 3 seconds, the voice menu will start (p. 56).
Follow the menu or enter the direct commands (p. 57).

↓

To end remote operation, hang up.

- The messages are saved.

- The unit will announce the remaining recording time after playback, if it is less than 5 minutes.

* If "No new messages" is heard, the Answering System has only old messages. If "No messages" is heard, the Answering System has no messages.

Remote Code

The remote code prevents unauthorized people from accessing your unit and listening to your messages. Choose any **2-digit number (00–99)**. The factory preset remote code is "**11**". If you do not program your own remote code, you can use "11".

Make sure the unit is not being used and the handset is lifted off the base unit.

1 Press **MUTE/FUNCTION**.

2 Scroll to "Initial set" by pressing ▼ or ▲, and press ►.

```
 Date and time
▶Initial set
 --------------
```

3 Scroll to "Set answering" by pressing ▼ or ▲, and press ►.

```
 Set tel line
▶Set answering
 HS register
```

4 Scroll to "Remote code" by pressing ▼ or ▲.

```
 Recording time
▶Remote code
 --------------
```

5 Press ►.
•The current setting is displayed.

```
Remote code
              :11
          ▶=Save
```

6 Enter a remote code using a **2-digit number (00–99)**.

```
Remote code
              :35
          ▶=Save
```

7 Press ► (Save key).
•A beep sounds.
•To exit the programming mode, press **OFF**.

•You can exit the programming mode any time by pressing **OFF**.

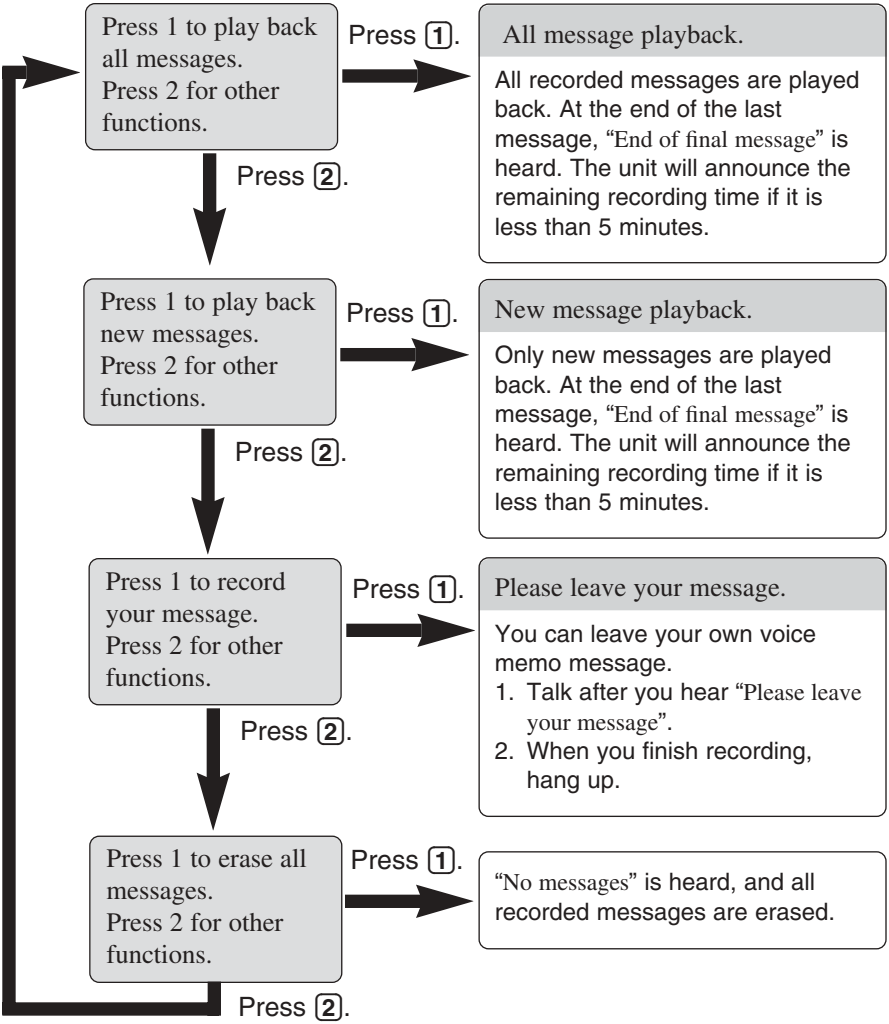
To check the remote code

Repeat steps 1 to 5.

•The remote code is displayed. When finished, press **OFF**.

Voice Menu

The shaded parts are voice prompts.


Press 1 to play back all messages. Press 2 for other functions.
Press 1.
All message playback.
All recorded messages are played back. At the end of the last message, "End of final message" is heard. The unit will announce the remaining recording time if it is less than 5 minutes.
Press 2.
Press 1 to play back new messages. Press 2 for other functions.
Press 1.
New message playback.
Only new messages are played back. At the end of the last message, "End of final message" is heard. The unit will announce the remaining recording time if it is less than 5 minutes.
Press 2.
Press 1 to record your message. Press 2 for other functions.
Press 1.
Please leave your message.
You can leave your own voice memo message.
1. Talk after you hear "Please leave your message".
2. When you finish recording, hang up.
Press 2.
Press 1 to erase all messages. Press 2 for other functions.
Press 1.
"No messages" is heard, and all recorded messages are erased.
Press 2.

- 3 seconds after playback, the voice menu will start again from the beginning.
- If you hear "Memory full" after playback, erase some, or all, of the messages (p. 57).

Direct Remote Operation

Once you have entered the remote code, you can also control your unit by direct commands instead of using the voice menu. To end the remote operation, hang up anytime.

Direct commands

4 **NEW MESSAGE PLAYBACK**
- Only new messages are played back.

5 **ALL MESSAGE PLAYBACK**
- All messages are played back.

1 **REPEAT (During playback)**
- The current message is repeated.
- If you press within 5 seconds of playback, the previous message will be played.

2 **SKIP (During playback)**
- The current message is skipped. The next message is played.

9 **STOP**
- Operation is stopped temporarily.
- To resume operation, enter a direct command within 15 seconds, or the voice menu will start (p. 56).

✱4 **ERASING A SPECIFIC MESSAGE (During playback)**
- The current message is erased.
- A short beep will sound and the next message will be played.

✱5 **ERASING ALL MESSAGES**
- All recorded messages are erased.
- A long beep sounds, and "No messages" is heard.

0 **ANSWERING SYSTEM OFF**
- The unit hangs up and will not answer calls until turned on again (p. 49, 53, see below).

Turning on the Answering System

Call your unit and wait for 15 rings.

- The unit will answer and the greeting message will be played.
- The Answering System will be turned on. Hang up or enter the remote code for other options.
- When turning on the Answering System using a rotary or pulse service telephone, you cannot enter the remote code for other options.

Skipping the greeting message

After calling your unit, press ✱ during the greeting message.

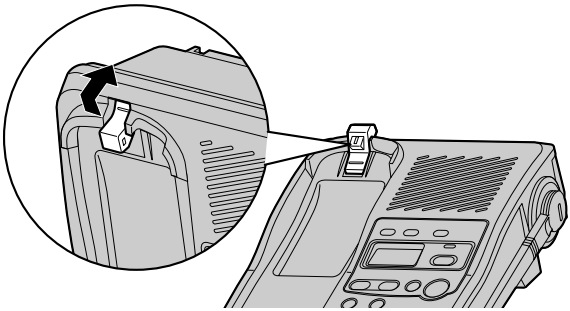
- The unit skips the rest of the greeting message and you can start recording your message after the long beep.

Wall Mounting

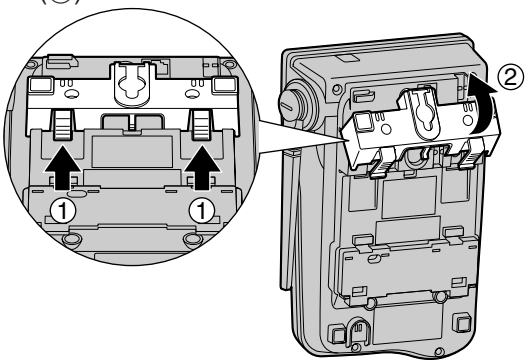
Base unit

This unit can be mounted on a wall phone plate.

1 Push the hook and turn it around.
Turn the hook until a click is heard.

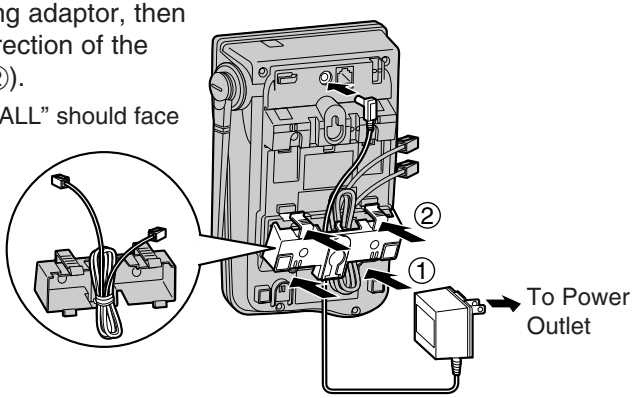


2 Press the tabs in the direction of the arrows (①), then remove the wall mounting adaptor (②).



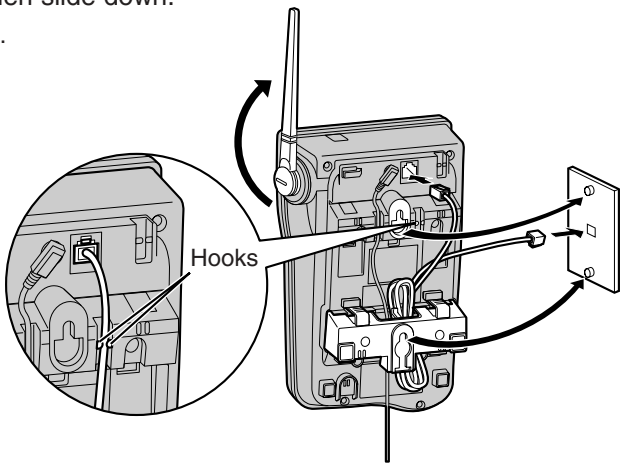
3 Connect the AC adaptor. Tuck the telephone line cord inside the wall mounting adaptor, then push it in the direction of the arrow (① and ②).

- The word “UP WALL” should face upward.



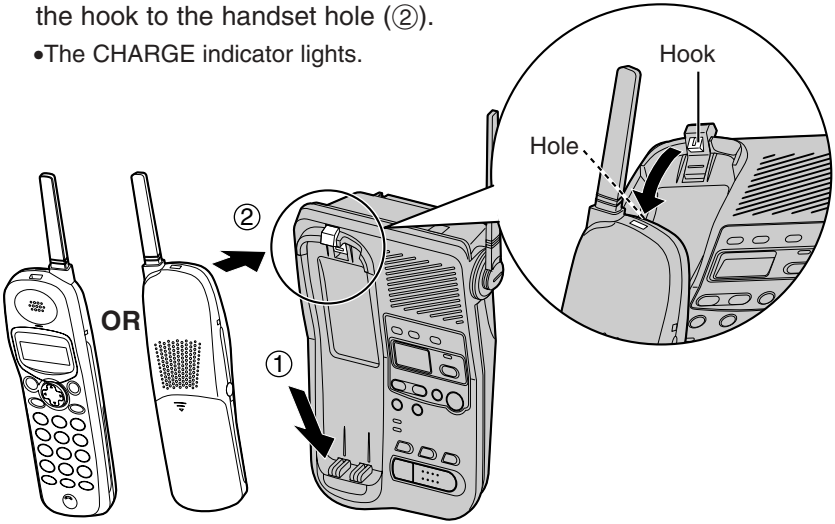
4 Connect the telephone line cord.
Mount the unit, then slide down.

•Raise the antenna.



5 **To charge the handset battery:**
Fix the charge contacts (①) and insert the hook to the handset hole (②).

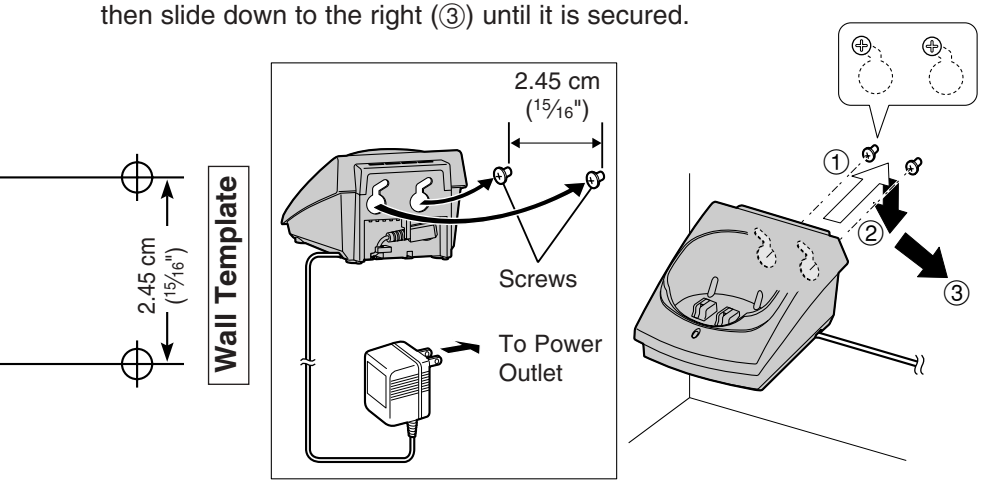
•The CHARGE indicator lights.



Wall Mounting

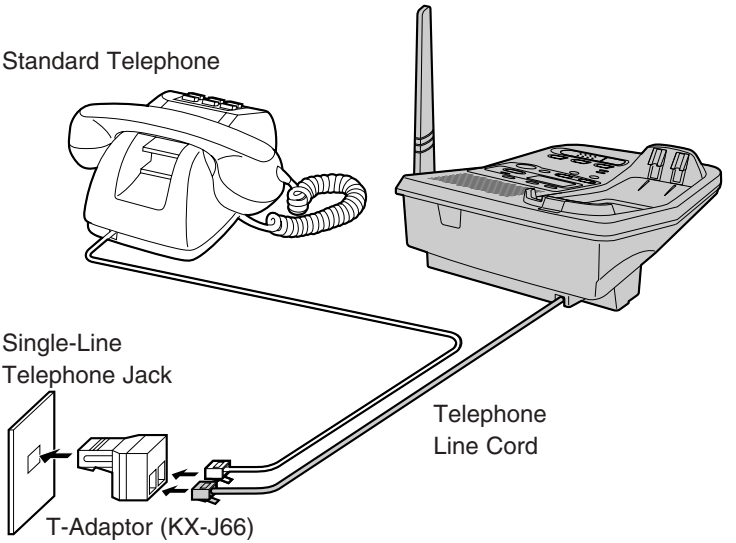
Charger unit

The charger can be wall mounted. Connect the AC adaptor. Install screws using the wall template below. Mount the charger (①). Slide it down (②) then slide down to the right (③) until it is secured.



Adding Another Phone

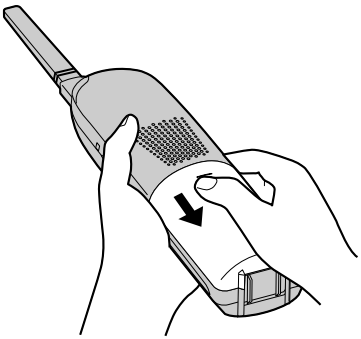
This unit will not function during a power failure. To connect a standard telephone on the same line, use the Panasonic T-adaptor KX-J66.
To order, call the accessories telephone number on page 2.



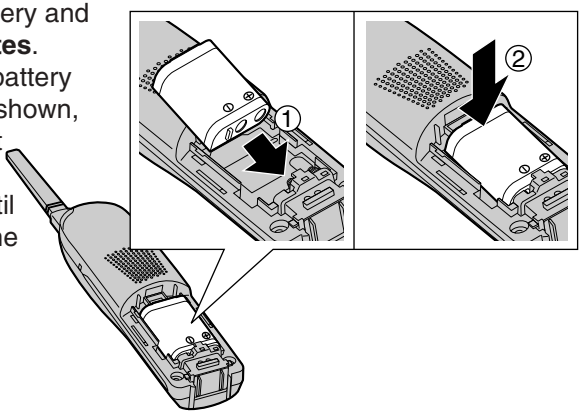
Battery Replacement

If "Recharge" is displayed and/or "[ ]" flashes after a few telephone calls even if the battery was fully charged, replace the battery with a new Panasonic N4HHGMB00001 or N4HHGMB00005 (HHR-P103) battery. To order, call the accessories telephone number on page 2.

1 Press the notch on the handset cover firmly and slide it as indicated by the arrow.



2 Remove the old battery and wait for **a few minutes**. And insert the new battery into the handset as shown, matching the correct polarity (①). Press the battery down until it fits securely into the compartment (②).



3 Close the cover. Make sure the handset display shows "[ ]", when you place the handset on the base unit or the charger.

- If it does not show "[ ]", remove the new battery and wait for 10 minutes; and then insert the battery again. Make sure the handset display shows "[ ]".

4 Charge the new battery for about 15 hours in order to display the battery strength prompt correctly (p. 10, 11).

A nickel metal hydride battery that is recyclable powers the product you have purchased. Please call 1-800-8-BATTERY for information on how to recycle this battery.

Canceling Registration/Re-registration

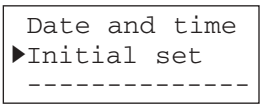
Canceling the Handset Registration

If you no longer need to use the handset or if you need to register the handset to a different base unit of the same model, it may be necessary to cancel the registration.
Only one handset can be canceled at a time near the base unit to which the handset is currently registered.

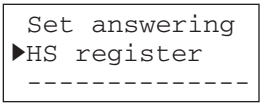
Make sure the unit is not being used and the handset is lifted off the base unit.

1 Press **MUTE/FUNCTION**.

2 Scroll to "Initial set" by pressing ▼ or ▲, and press ►.

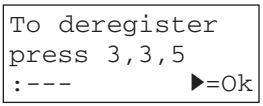


3 Scroll to "HS register" by pressing ▼ or ▲, and press ►.

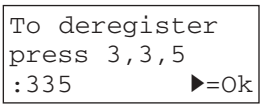


4 Scroll to "Deregistration" by pressing ▼ or ▲.

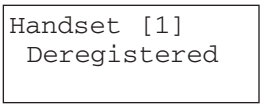
5 Press ►.



6 Press 3 3 5 (DEL.) to delete the registration memory.
- If you make a mistake, press **HOLD/INTERCOM/CLEAR**, and enter "335".



7 Press ► (Ok key).
- A beep sounds and the registration memory will be erased on both the handset and the base unit.
- If 3 beeps sound, you entered a wrong code. Enter "335", then press ► (Ok key).
- To register the handset to another base unit of the same model, start from step 5 on page 63.



- You can exit the programming mode any time by pressing **OFF**.
- After canceling registration, the handset cannot be used. If you want to use it again, register the handset to the base unit by performing steps 5 and 6 on page 63.

Re-registering the Handset

If you want to re-register the handset to the base unit or a different base unit of the same model, you need to register it to that base unit. The handset will be given a new extension number of that base unit. Only one handset can be registered at a time. **Make sure the base unit and the other handsets are not being used. Registration must be completed within 1 minute.**

If you have canceled the handset registration at the previous base unit (p. 62), start from step 5.

1 **Handset:** Press **MUTE/FUNCTION**.

2 Scroll to "`Initial set`" by pressing ▼ or ▲, and press ▶.

```
 Date and time
▶Initial set
 --------------
```

3 Scroll to "`HS register`" by pressing ▼ or ▲, and press ▶.

```
 Set answering
▶HS register
 --------------
```

4 Press ▶ at "`Registration`".

```
 --------------
▶Registration
 Deregistration
```

5 **Base unit:**
Press and hold **HANDSET LOCATOR/INTERCOM ALL** until the CHARGE indicator flashes.

```
Press [ALL] on
base for 3 sec,
then press [▶].
```

6 **Handset:**
①Press ▶.

②Wait until a long beep sounds and the display shows the registered number. The registration will be then complete.

```
Handset
  Registering
```

Ex. Extension number 3

```
Handset [3]
  Registered
```

- The registered number "`[1]`" to "`[3]`" is shown on the top right of the display.
- You can stop registration by pressing **OFF** on the handset and pressing **HANDSET LOCATOR/INTERCOM ALL** on the base unit.

If you have not canceled the handset registration at the previous base unit (p. 62), the handset number still remains on that base unit memory. Erase the handset number from the previous base unit. For KX-TG2382B/KX-TG2382PW/KX-TG2383S base unit: (1) Press and hold **HANDSET LOCATOR/INTERCOM ALL** until the CHARGE indicator flashes. (2) Press and hold **HANDSET LOCATOR/INTERCOM** (**1** to **3**) of the handset number that you want to erase until the CHARGE indicator flashes, then rapidly flashes, then goes out.

If the Following Appear...

If the unit detects a problem, one of the following messages will be displayed on the handset. Error beeps or a busy tone will sound.

Display message	Cause & Remedy
Recharge	The battery needs to be charged. Recharge the battery (p. 10, 11).
Charge for 15h	The battery has been discharged. The handset will not work. Charge the battery fully (p. 10, 11).
No link to base Move closer to base, try again	The handset has lost communication with the base unit. Move closer to the base unit, and try again.
Busy	• The called handset/base unit is in use. • The handset you are calling is too far from the base unit. • If the radio communication between the handset and the base unit is partially impaired, this display will be shown. • If more than one unit is in use, such as conducting an external/internal call or listening to messages, you may not be able to use another unit. Try again later. • If the Answering System is responding to a call or another user is listening to messages in the Answering System, you cannot access the Answering System. Try again later. • You cannot join the conference call. A maximum of 2 handsets can take part in a conference call. • While 2 other handsets are making a conference call, you cannot operate the handset. Try again later.
Error!!	When you tried to register or deregister the handset, the handset and the base unit could not link for some reason, such as interference from other electrical appliances. Take the handset and the base unit away from the electrical appliances and try again.

Display message	Cause & Remedy
Directory full	When trying to store an item in the directory, the directory memory is full. To erase other items from the directory, see page 41.
Please lift up and try again.	A handset button was pressed while the handset was on the base unit or the charger. Lift the handset and press the button again.
Invalid	The called handset has not been registered to the base unit or you selected your extension number.
Invalid. Please register to the base.	The handset you tried to make a call has not been registered to the base unit. Register it (p. 63, steps 5 and 6).
All handsets registered. Maximum is 3.	• 3 handsets have already been registered to the base unit. To cancel another handset registration, see page 62. • This base unit has the memory of the handset currently registered to another base unit. Erase the handset memory from the base unit. For KX-TG2382B/KX-TG2382PW/KX-TG2383S base unit: (1) Press and hold **HANDSET LOCATOR/INTERCOM** [ALL] until the CHARGE indicator flashes. (2) Press and hold **HANDSET LOCATOR/INTERCOM** ([1] to [3]) of the handset number that you want to erase until the CHARGE indicator flashes, then rapidly flashes, then goes out.

Troubleshooting

Cordless Telephone

Problem	Cause & Remedy
"No link to base Move closer to base, try again" is displayed and an alarm tone sounds.	•You are too far from the base unit. Move closer to the base unit and try again. •Plug in the AC adaptor of the base unit. •Raise the base unit antenna.
Static, sound cuts in/out, fades. Interference from other electrical units.	•Locate the handset and the base unit away from other electrical appliances (p. 6). •Move closer to the base unit. •Raise the base unit antenna.
The handset does not ring.	•The ringer volume is OFF. Set to HIGH, MEDIUM or LOW (p. 19). •If more than one other user is using the handsets and base unit, the handset may not ring. Those users will hear incoming call tones (p. 48) and the IN USE/HOLD indicator flashes quickly on the base unit.
The handset display is blank.	•Charge the battery fully (p. 10).
You cannot store a name and phone number in the directory.	•You cannot store an item in the directory while the handset is in the talk, speakerphone, intercom or remote operation mode. •Do not pause for over 60 seconds while storing.
While programming or searching, the handset starts to ring and stops the program/search.	•To answer the call, press [ ] or [ ]. Start again from the beginning after hanging up.
You cannot make an internal/external call with the handset.	•You cannot make a call when the handset is in the remote operation mode. Exit the mode by pressing [OFF] (p. 52).

Problem	Cause & Remedy
The unit does not display the caller's name and/or phone number.	•You need to subscribe to a Caller ID service. •Other telephone equipment may be interfering with your phone. Disconnect it and try again. •Other electrical appliances connected to the same outlet may be interfering with the Caller ID information. •Telephone line noise may be affecting the Caller ID information. •The caller requested not to send his/her information. See page 30. •If a call is being transferred to you, the caller information will not be displayed.
The handset display exits the Caller List.	•Do not pause for over 60 seconds while searching.
You cannot page the handset or base unit.	•The called handset is too far from the base unit. •The called unit is in use. Try again later. •If more than one other user is using the handsets and base unit, you may not be able to page. Try again later. • While 2 other handsets are making a conference call, you cannot page the handset or the base unit. Try again later.
You cannot redial by pressing **PAUSE/REDIAL** on the handset.	•If the last number dialed was more than 32 digits long, the number will not be redialed correctly. •The button has a double function as either redial or pause. It will redial the last number dialed if pressed at the outset of a call (p. 27). If another number has been dialed first, it will operate as a pause button (p. 47).
You cannot have a conversation or listening to messages using the headset.	•Make sure that an optional headset is connected properly (p. 12). •If "SP-phone" is displayed on the handset, press to switch to the headset.

Answering System

Problem	Cause & Remedy
The Answering System is on, but incoming messages are not recorded.	•The recording time is set to “Greeting only”. Select “1 minute”, “2 minutes” or “3 minutes” (p. 23). •Memory is full. Erase some, or all, of the messages (p. 51).
“***FULL***” is displayed and the ANSWER ON indicator flashes rapidly, and no new messages are recorded.	•Memory is full. Erase some, or all, of the messages (p. 51).
You cannot access the Answering System from the base unit or the handset.	•If more than one other user is using the handsets and base unit, you may not be able to access the Answering System. Try again later. •If the Answering System is responding to a call or another user is listening to messages in the Answering System, you cannot access the Answering System. Try again later. • While 2 other handsets are making a conference call, you cannot access the Answering System. Try again later. •Your handset is too far from the base unit. Move closer to the base unit.
You cannot access the Answering System from a touch tone phone.	•Make sure you enter the correct remote code (p. 55). •The Answering System may not respond if the tones are too short to activate the unit. Press each button firmly. •The Answering System is off. Turn it on (p. 57).
During playback on the handset, incoming call tones are heard.	•To answer the call, press [ ] or [ ]. For playback, start again from the beginning after hanging up.
When you play back messages or you turn the Answering System on, the unit announces the wrong day.	•The date may be set wrong. Adjust the date (p. 15).

General

Problem	Cause & Remedy
The unit does not work.	•Check the settings (p. 9–11). •Check whether the dialing mode setting is correct (p. 16). •Charge the battery fully (p. 10). •Clean the charge contacts and charge again (p. 11). •Install the battery properly (p. 10). •Unplug the AC adaptor of the base unit to reset. Plug in, and try again. •The handset has not been registered to the base unit. Register the handset (p. 63, steps 5 and 6). •Re-install the battery (p. 61) and charge it fully. •After you register an additional handset to the base unit, please confirm that the other (first one and second one) pre-registered handsets display "Talk" by pressing [TALK]. If one of the handsets does not display "Talk", re-register that handset to the base unit.
You cannot program items, such as the dialing mode.	•Programming is not possible while the handset is being used. •Do not pause for over 60 seconds while programming. •Move closer to the base unit. •[▼], [▲], [◄] or [►] may have been pressed when you picked up the handset. Press [OFF] and try again. •If more than one other user is using the handsets, you may not be able to program. Try again later.

Troubleshooting

Problem	Cause & Remedy
You cannot register the handset at the base unit.	•Charge the battery fully (p. 10). •The maximum of 3 handsets have already been registered to the base unit. •This base unit has the memory of the handset currently registered to another base unit. Erase the handset memory from the base unit. For KX-TG2382B/KX-TG2382PW/ KX-TG2383S base unit: (1) Press and hold **HANDSET LOCATOR/INTERCOM** **ALL** until the CHARGE indicator flashes. (2) Press and hold **HANDSET LOCATOR/INTERCOM** (**1** to **3**) of the handset number that you want to erase until the CHARGE indicator flashes, then rapidly flashes, then goes out.
"Recharge" is displayed, "[▮]" flashes or the handset beeps intermittently.	•Charge the battery fully (p. 10, 11).
"Charge for 15h" is displayed and the handset does not work.	•The battery has been discharged. Charge the battery fully (p. 10, 11).
You charged the battery fully, but "Recharge" is still displayed and/or "[▮]" continues to flash, or "Charge for 15h" is displayed.	•Clean the charge contacts and charge again (p. 11). •Install a new battery (p. 61).
The CHARGE indicator light does not go out after the battery has been charged.	•This is normal.
If you cannot solve your problem	•Call our customer call center at 1-800-211-PANA(7262). •Panasonic's e-mail address for customer inquiries: consumerproducts@panasonic.com for customers in the USA or Puerto Rico ONLY

Important Safety Instructions

When using this unit, basic safety precautions should always be followed to reduce the risk of fire, electric shock, or personal injury.

1. Read and understand all instructions.
2. Follow all warnings and instructions marked on this unit.
3. Unplug this unit from AC outlets before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
4. Do not use this unit near water, for example, near a bathtub, washbowl, kitchen sink, or the like.
5. Place this unit securely on a stable surface. Serious damage and/or injury may result if the unit falls.
6. Do not cover slots and openings on the unit. They are provided for ventilation and protection against overheating. Never place the unit near radiators, or in a place where proper ventilation is not provided.
7. Use only the power source marked on the unit. If you are not sure of the type of power supplied to your home, consult your dealer or local power company.
8. Do not place objects on the power cord. Install the unit where no one can step or trip on the cord.
9. Do not overload wall outlets and extension cords. This can result in the risk of fire or electric shock.
10. Never push any objects through slots in this unit. This may result in the risk of fire or electric shock. Never spill any liquid on the unit.
11. To reduce the risk of electric shock, do not disassemble this unit. Take the unit to an authorized servicenter when service is required. Opening or removing covers may expose you to dangerous voltages or other risks. Incorrect reassembly can cause electric shock when the unit is subsequently used.
12. Unplug this unit from the wall outlet and refer servicing to an authorized servicenter when the following conditions occur:
    A. When the power supply cord or plug is damaged or frayed.
    B. If liquid has been spilled into the unit.
    C. If the unit has been exposed to rain or water.
    D. If the unit does not work normally by following the operating instructions. Adjust only controls covered by the operating instructions. Improper adjustment may require extensive work by an authorized servicenter.
    E. If the unit has been dropped or physically damaged.
    F. If the unit exhibits a distinct change in performance.
13. During thunderstorms, avoid using telephones except cordless types. There may be a remote risk of an electric shock from lightning.
14. Do not use this unit to report a gas leak, when in the vicinity of the leak.

SAVE THESE INSTRUCTIONS

Important Safety Instructions

CAUTION:

To reduce the risk of fire or injury to persons, read and follow these instructions.

1. Use only the battery(ies) specified.
2. Do not dispose of the battery(ies) in a fire. They may explode. Check with local waste management codes for special disposal instructions.
3. Do not open or mutilate the battery(ies). Released electrolyte is corrosive and may cause burns or injury to the eyes or skin. The electrolyte may be toxic if swallowed.
4. Exercise care in handling batteries in order not to short the battery to conductive materials such as rings, bracelets, and keys. The battery and/or conductor may overheat and cause burns.
5. Charge the battery(ies) provided with or identified for use with this product only in accordance with the instructions and limitations specified in this manual.

WARNING:

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS PRODUCT TO RAIN OR ANY TYPE OF MOISTURE.

- The AC adaptor is used as the main disconnect device, ensure that the AC outlet is located/installed near the unit and is easily accessible.

FCC and Other Information

This equipment complies with Part 68 of the FCC rules and the requirements adopted by the ACTA. On the bottom of this equipment is a label that contains, among other information, a product identifier in the format US:ACJ-----.
If requested, this number must be provided to the telephone company.
Registration No. .....(found on the bottom of the unit)
Ringer Equivalence No. (REN).....0.1B

A plug and jack used to connect this equipment to the premises wiring and telephone network must comply with the applicable FCC Part 68 rules and requirements adopted by the ACTA. A compliant telephone cord and modular plug is provided with this product. It is designed to be connected to a compatible modular jack that is also compliant.

The REN is used to determine the number of devices that may be connected to a telephone line. Excessive RENs on a telephone line may result in the devices not ringing in response to an incoming call. In most but not all areas, the sum of RENs should not exceed five (5.0). To be certain of the number of devices that may be connected to a line, as determined by the total RENs, contact the local telephone company. For products approved after July 23, 2001, the REN for this product is part of the product identifier that has the format US:AAAEQ##TXXXX. The digits represented by ## are the REN without a decimal point (e.g., 03 is a REN of 0.3).

If this equipment causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. But if advance notice isn't practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.

The telephone company may make changes in its facilities, equipment, operations or procedures that could affect the operation of the equipment. If this happens the telephone company will provide advance notice in order for you to make necessary modifications to maintain uninterrupted service.

If trouble is experienced with this equipment, for repair or warranty information, please contact a Factory Servicenter or other Authorized Servicer. If the equipment is causing harm to the telephone network, the telephone company may request that you disconnect the equipment until the problem is resolved.

Connection to party line service is subject to state tariffs. Contact the state public utility commission, public service commission or corporation commission for information.

If your home has specially wired alarm equipment connected to the telephone line, ensure the installation of this equipment does not disable your alarm equipment. If you have questions about what will disable alarm equipment, consult your telephone company or a qualified installer.

WHEN PROGRAMMING EMERGENCY NUMBERS AND(OR) MAKING TEST CALLS TO EMERGENCY NUMBERS:
1) Remain on the line and briefly explain to the dispatcher the reason for the call.
2) Perform such activities in the off-peak hours, such as early morning or late evenings.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Privacy of communications may not be ensured when using this phone.

CAUTION:
Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this device.

Note:
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
—Reorient or relocate the receiving antenna.
—Increase the separation between the equipment and receiver.
—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
—Consult the dealer or an experienced radio/TV technician for help.

FCC and Other Information

Some cordless telephones operate at frequencies that may cause interference to nearby TVs and VCRs. To minimize or prevent such interference, the base of the cordless telephone should not be placed near or on top of a TV or VCR. If interference is experienced, move the cordless telephone further away from the TV or VCR. This will often reduce, or eliminate, interference.

Operating near 2.4GHz electrical appliances may cause interference. Move away from the electrical appliances.

CAUTION:
To comply with FCC RF exposure requirements, the base unit should be installed with its antenna located at 20 cm or more from persons and handset should be carried with the specific belt-clip provided for the handset to ensure compliance. Other non-tested belt-clips or similar body-worn accessories may not comply, therefore, should be avoided.

This equipment is hearing aid compatible as defined by the FCC in 47 CFR Section 68.316.

When you hold the phone to your ear, noise might be heard in your Hearing Aid. Some Hearing Aids are not adequately shielded from external RF (radio frequency) energy. If noise occurs, use an optional headset accessory or the speakerphone option (if applicable) when using this phone. Consult with your audiologist or Hearing Aid manufacturer about the availability of Hearing Aids which provide adequate shielding to RF energy commonly emitted by digital devices.

- **Environment** — do not place the unit in a room where the temperature is less than 5°C (41°F) or greater than 40°C (104°F). Allow 10 cm (4") clearance around the unit for proper ventilation. Avoid excessive smoke, dust, mechanical vibration, shock, or direct sunlight.
- **Medical** — consult the manufacturer of any personal medical devices, such as pacemakers or hearing aids, to determine if they are adequately shielded from external RF (radio frequency) energy. (The unit operates in the frequency range of 2400MHz to 2480MHz, and the power output level can range 0.04 watts to 0.40 watts.) Do not use the unit in health care facilities if any regulations posted in the area instruct you not to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF (radio frequency) energy.
- **Routine care** — wipe the unit with a soft cloth. Do not use benzine, thinner, or any abrasive powder. When you leave the unit unused for a long period of time, unplug the AC adaptor from the outlet.
- **If there is any trouble** — disconnect the unit from the telephone line and connect a known working phone. If the known working phone operates properly, have your unit repaired by a Factory Servicenter or other Authorized Servicer. If the known working phone does not operate properly, consult your telephone company.

Index

A
Accessories 2
Answering Calls 29
Answering System 49
Auto Talk Feature 18, 29, 43
B
Backlit LCD display 28
Base Unit Location 6
Battery Charge 6, 10
Battery information 11
Battery Replacement 61
Battery strength 11
Belt Clip 12
C
Call monitor 49
Call Waiting Caller ID 46
Call Waiting Tone 46
Caller ID Number Auto Edit Feature ... 33, 34
Caller ID service 16, 29, 30
Caller List, editing 33
Caller List, erasing 36
Caller List, storing 35
Caller List, viewing 31
Calling Back from the Caller List 32
Conference calls 45
D
Date and time 15
Deregistration 62
Dialing Mode 16
Directory 37
Directory, dialing 39
Directory, editing 40
Directory, erasing 41
Directory, names 38
Directory, storing 37
Display 64
E
Erasing a message 51
Erasing all messages 51
Extension number 42, 63
F
FCC and Other Information 72
FLASH Button 47
Flash time 47
Function Menu Table 14
G
Greeting Message 21
H
Headset, optional 12
Hold 28
I
Incoming Call Tone 48
Installation, AC Adaptor 9
Installation, Adding Another Phone ... 60
Installation, Battery 10
Installation, Telephone Line Cord 9
Intercom call 42, 43
Intercom paging 42, 43
L
LCD Contrast 20
Lighted handset keypad 28
Line Mode 17
Listening to Messages 50, 52, 54
Location of Controls 7, 8
M
Making Calls 25, 26
Message storage 22
Microphone, Base unit 21, 42
Microphone, Handset 26
Monitoring incoming calls 49
MUTE 46
N
Navigator key 8
Noise 6
P
PAUSE 47
Power failure 15, 22, 60
Pulse service 46
R
Recording Time 23
Redial 27
Redial list 27
Registration 63
Registration, Canceling 62
Remote Code 55
Remote Operation, Handset 52
Remote Operation, Touch Tone Phone .. 54
Ringer Off 19
Ringer Tone 48
Ringer Volume 19
Rotary service, Tone dialing 46

S
Safety Instructions 71
Shipping product for service 79
Specifications 76
SP-phone 26
T
Toll saver 24
Transferring a Call 44
Troubleshooting, Answering System 68
Troubleshooting, Cordless Telephone .. 66
Troubleshooting, General 69
V
Voice menu 52, 56
Volume control, Base Unit 22, 50
Volume control, Handset..... 28
W
Wall Mounting 58
Warranty..... 77

Specifications

■ **Base unit**

Power Supply:	AC Adaptor (120 V AC, 60 Hz)
Power Consumption:	Standby: Approx. 3.2 W Maximum: Approx. 6 W
Frequency:	2.40 GHz – 2.48 GHz
Dimensions (H x W x D):	Approx. 84 mm x 145 mm x 215 mm (3 5⁄16" x 5 23⁄32" x 8 15⁄32")
Mass (Weight):	Approx. 440 g (0.97 lb.)

■ **Charger**

Power Supply:	AC Adaptor (120 V AC, 60 Hz)
Power Consumption:	Standby: Approx. 0.8 W Maximum: Approx. 2.0 W
Dimensions (H x W x D):	Approx. 60 mm x 74 mm x 98 mm (2 11⁄32" x 2 29⁄32" x 3 7⁄8")
Mass (Weight):	Approx. 100 g (0.22 lb.)

■ **Handset**

Power Supply:	Ni-MH battery (3.6 V, 650 mAh)
Frequency:	2.40 GHz – 2.48 GHz
Dimensions (H x W x D):	Approx. 237 mm x 52 mm x 38 mm (9 11⁄32" x 2 1⁄16" x 1 1⁄2")
Mass (Weight):	Approx. 180 g (0.4 lb.)
Security Codes:	1,000,000

■ **Dialing Mode:** Tone (DTMF)/Pulse

■ **Operating Environment:** 5 ˚C – 40 ˚C (41 ˚F – 104 ˚F)

Specifications are subject to change without notice.

PANASONIC CONSUMER ELECTRONICS COMPANY, DIVISION OF MATSUSHITA ELECTRIC CORPORATION OF AMERICA
One Panasonic Way
Secaucus, New Jersey 07094

PANASONIC SALES COMPANY, DIVISION OF MATSUSHITA ELECTRIC OF PUERTO RICO, INC.,
Ave. 65 de Infanteria, Km. 9.5
San Gabriel Industrial Park
Carolina, Puerto Rico 00985

Panasonic Telephone Products Limited Warranty

Limited Warranty Coverage

If your product does not work properly because of a defect in materials or workmanship, Panasonic Consumer Electronics Company or Panasonic Sales Company (collectively referred to as "the warrantor") will, for the length of the period indicated on the chart below, which starts with the date of original purchase ("warranty period"), at its option either (a) repair your product with new or refurbished parts, or (b) replace it with a new or a refurbished product. The decision to repair or replace will be made by the warrantor.

Parts	Labor
One (1) Year	**One (1) Year**

During the "Labor" warranty period there will be no charge for labor. During the "Parts" warranty period, there will be no charge for parts. You must mail-in your product during the warranty period. This Limited Warranty excludes both parts and labor for batteries, antennas, and cosmetic parts (cabinet). This warranty only applies to products purchased and serviced in the United States or Puerto Rico. This warranty is extended only to the original purchaser of a new product which was not sold "as is".

Mail-In Service

For assistance in the continental U.S.A. in obtaining repairs please ship the product to:

Panasonic Services Company
Customer Servicenter
Suite B
4900 George McVay Drive
McAllen, TX 78503

For assistance in Puerto Rico call Panasonic Sales Company (787)-750-4300 or fax (787)-768-2910.

When shipping the unit carefully pack and send it prepaid, adequately insured and preferably in the original carton. Include a letter detailing the complaint and provide a day time phone number where you can be reached.

IF REPAIR IS NEEDED DURING THE WARRANTY PERIOD THE PURCHASER WILL BE REQUIRED TO FURNISH A SALES RECEIPT/PROOF OF PURCHASE INDICATING DATE OF PURCHASE, AMOUNT PAID AND PLACE OF PURCHASE. CUSTOMER WILL BE CHARGED FOR THE REPAIR OF ANY UNIT RECEIVED WITHOUT SUCH PROOF OF PURCHASE.

Limited Warranty Limits And Exclusions

This warranty ONLY COVERS failures due to defects in materials or workmanship, and DOES NOT COVER normal wear and tear or cosmetic damage. The warranty ALSO DOES NOT COVER damages which occurred in shipment, or failures which are caused by products not supplied by the warrantor, or failures which result from accidents, misuse, abuse, neglect, mishandling, misapplication, alteration, faulty installation, set-up adjustments, misadjustment of consumer controls, improper maintenance, power line surge, lightning damage, modification, introduction of sand, humidity or liquids, commercial use such as hotel, office, restaurant, or other business or rental use of the product, or service by anyone other than a Factory Servicenter or other Authorized Servicer, or damage that is attributable to acts of God.

THERE ARE NO EXPRESS WARRANTIES EXCEPT AS LISTED UNDER "LIMITED WARRANTY COVERAGE". THE WARRANTOR IS NOT LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY. (As examples, this excludes damages for lost time, lost calls or messages, cost of having someone remove or re-install an installed unit if applicable, travel to and from the servicer. The items listed are not exclusive, but are for illustration only.) **ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTY OF MERCHANTABILITY, ARE LIMITED TO THE PERIOD OF THE LIMITED WARRANTY.**

Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the exclusions may not apply to you.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state. If a problem with this product develops during or after the warranty period, you may contact your dealer or Servicenter. If the problem is not handled to your satisfaction, then write to the warrantor's Consumer Affairs Department at the addresses listed for the warrantor.

PARTS AND SERVICE, WHICH ARE NOT COVERED BY THIS LIMITED WARRANTY, ARE YOUR RESPONSIBILITY.

Customer Services Directory

For Product Information, Operating Assistance, Literature Request, Dealer Locations, and all Customer Service inquiries please contact: 1-800-211-PANA (7262), Monday-Friday 9 am-9 pm; Saturday-Sunday 9 am-7 pm, EST.
or send e-mail :
consumerproducts@panasonic.com
For hearing or speech impaired TTY users, TTY : 1-877-833-8855

Web Site: http://www.panasonic.com
You can purchase parts, accessories or locate your nearest servicenter by visiting our Web Site.

Accessory Purchases:

1-800-332-5368 (Customer Orders Only)
For hearing or speech impaired TTY users, TTY : 1-866-605-1277
Panasonic Services Company 20421 84th Avenue South, Kent, WA 98032
(6 am to 5 pm Monday - Friday; 6 am to 10:30 am Saturday; PST)
(Visa, MasterCard, Discover Card, American Express, Check)

Service in Puerto Rico
Matsushita Electric of Puerto Rico, Inc. Panasonic Sales Company/ Factory Servicenter:
Ave. 65 de Infantería, Km. 9.5, San Gabriel Industrial Park, Carolina, Puerto Rico 00985
Phone (787)750-4300 Fax (787)768-2910

For product service

•Call 1-800-211-PANA(7262) for the location of an authorized servicenter.
•Panasonic's e-mail address for customer inquiries:
consumerproducts@panasonic.com
for customers in the USA or Puerto Rico ONLY

When you ship the product

•Carefully pack your unit, preferably in the original carton.
•Attach a letter, detailing the symptom, to the outside of the carton.

Symptom

•Send the unit to an authorized servicenter, prepaid and adequately insured.
•Do not send your unit to the Panasonic Consumer Electronics Company listed on the back cover or to executive or regional sales offices. These locations do not repair consumer products.

For your future reference

Serial No. (found on the bottom of the unit)

Date of purchase

Name and address of dealer

- This cordless telephone is designed for use in the United States of America. Sale or use of this product in other countries may violate local laws.
- Ce téléphone sans fil est conçu pour être utilisé aux États-Unis d'Amérique. La vente ou l'emploi de cet appareil dans certains autres pays peut constituer une infraction à la législation locale.
- Este teléfono sin cordón fue elaborado para uso en los Estados Unidos de América. La venta o el empleo de este producto en ciertos países puede constituir violación de la legislación local.
- このコードレス電話機は、日本国外での使用を目的として設計されており、日本国内での使用は法律違反となります。従って、当社では日本国内においては原則として修理などのサービスは致しかねます。

If you need assistance with the set-up or operation, please call 1-800-211-PANA(7262)

Panasonic Consumer Electronics Company,
Division of Matsushita Electric Corporation of America
One Panasonic Way, Secaucus, New Jersey 07094

Panasonic Sales Company,
Division of Matsushita Electric of Puerto Rico, Inc.
Ave. 65 de Infantería, Km. 9.5, San Gabriel Industrial Park
Carolina, Puerto Rico 00985

Printed in USA **PQQX13385WA-AK** S0702-4023